WORKSHEET – 1.3

Name: Yana Srivastava

Section/Group: 611 / "A"

UID: 20BCS2279

Subject: Programming in Python Lab

Date of Submission: 03.3.2022

Branch: BE CSE (4th Semester)

Aim:

Write a python code that will developing programming concepts using all functions of the Python.

Task to be done:

1. Write a python program to calculate area of 10 different circles. Given the pie = 22/7 and radius of the circles entered by user using Simple Function, Parameterized Function, Return Type with function and return type with parameterized Functions.
2. Write a python program to print Multiplication tables from 2 to 20 whether table values entered by user using Simple Function, Parameterized Function, Return Type with function and return type with parameterized Functions.

Apparatus / Simulator Used:

Python IDE

Algorithm / Flowchart:

1. **To calculate area of 10 different circles:**

Simple Function:

- Start the program.
- Create a user-defined function findarea().
- Enter the radius of circle from the user.
- Take the value of pi as 22/7.
- Calculate the area using the formula: pi *radius*radius.
- Call the function by entering the number of circles of which area you want to calculate.
- Print all the values with a suitable message.
- End the program.

Parameterized Function:

- Start the program.
- Create a user-defined function with the arguments findarea(radius).
- Enter the radius of circle from the user.
- Take the value of pi as 22/7.
- Calculate the area using the formula: pi *radius*radius.
- Call the function with the arguments by entering the number of circles of which area you want to calculate.
- Print all the values with a suitable message.
- End the program.

Return Type Function:

- Start the program.
- Create a user-defined function findarea().
- Enter the radius of circle from the user.

- Take the value of pi as 22/7.
- Calculate the area using the formula: pi *radius*radius.
- Return type function is used to return the value.
- Call the function by entering the number of circles of which area you want to calculate.
- Print all the values with a suitable message.
- End the program.

Return Type Parameterized Function:

- Start the program.
- Create a user-defined function with the arguments findarea(radius).
- Enter the radius of circle from the user.
- Take the value of pi as 22/7.
- Calculate the area using the formula: pi *radius*radius.
- Return type function is used to return the value.
- Call the function with the arguments by entering the number of circles of which area you want to calculate.
- Print all the values with a suitable message.
- End the program.

2. To print the multiplication tables from 2 to 20:

Simple Function:

- Start the program.
- Create a user-defined function multi.
- Print the table of 2 to 20 using for loop.
- Call the function.

- End the program.

Parameterized Function:

- Start the program.
- Create a user-defined function with the argument multi(num).
- Print the table of 2 to 20 using for loop.
- Call the function with arguments.
- End the program.

Return Type Function:

- Start the program.
- Create a user-defined function multi.
- Print the table of 2 to 20 using for loop.
- Return type function is used to return the value.
- Call the function.
- End the program.

Return Type Parameterized Function:

- Start the program.
- Create a user-defined function with arguments multi(num).
- Print the table of 2 to 20 using for loop.
- Return type function is used to return the value.
- Call the function with arguments.
- End the program.

Code:

1. To calculate area of 10 different circles:

Simple Function:

```
#Simple Function Program to  calculate area of 10 different circles. Given the pie = 22/7 and radius of the circles entered by user
#Create a user-defined function
def findarea():
#Accept the input from the user for radius of the circle
    a=int(input("Enter radius of circle:"))
#Value of pi
    pi=22/7
#Calculate the area of circle
    area= pi*a*a
#Print the area of circle
    print("Area of the circle",area)


#Accept the input from user to print the area of how many circles
n=int(input("Enter number of circles to calculate the area:"))
for n in range(1,n+1):
#Call the function
    findarea()
```

Parameterized Function:

#Parameterized Function Program to calculate area of 10 different circles. Given the pie = 22/7 and radius of the circles entered by user

```
#Create a user defined function
def findarea(radius):
#Accept the input from the user for radius of the circle
    a=int(input("Enter radius of circle:"))
#Value of pi
    pi=22/7
#Calculate the area of circle
    area= pi*a*a
#Print the area of the circle
    print("Area of the circle",area)


#Accept the input from user to print the area of how many circles
n=int(input("Enter number of circles to calculate the area:"))
for n in range(1,n+1):
#Call the function
    findarea(n)
```

Return Type Function:

#Return Type with Function Program to calculate area of 10 different circles. Given the pie = 22/7 and radius of the circles entered by user

```
# Create a user defined function
def findarea():
#Accept the input from the user for radius of the circle
    a=int(input("Enter radius of circle:"))
#Value of pi 22/7
    pi=22/7
#Calculate the area of circle
    area= pi*a*a
#Print the area of the circle
    print("Area of the circle",area)
#Return the value
    return area


#Accept the input of number of circles from the user
n=int(input("Enter number of circles to calculate the area:"))
for n in range(1,n+1):
#Call the function
    findarea()
```

Return Type Parameterized Function:

#Return Type with Parameterized Function Program to calculate area of 10 different circles. Given the pie = 22/7 and radius of the circles entered by user

```
#Create a user defined function
def findarea(radius):
#Accept the input from the user for radius of the circle
    a=int(input("Enter radius of circle:"))
#Value of pi 22/7
    pi=22/7
#Calculate the area of circle
    area= pi*a*a
#Print the area of the circle
    print("Area of the circle",area)
#Return the value
    return area


#Accept the input of number of circles from the user
n=int(input("Enter number of circles to calculate the area:"))
for n in range(1,n+1):
#Call the function
    findarea(n)
```

2. To print the multiplication tables from 2 to 20:

Simple Function:

```
#Simple Function Program to print Multiplication tables from 2 to 20 whether table values entered by user

#Create a user defined function

def multi():

#Print the table of range 2 to 20

    for i in range(1,11):

        a=n*i

        print(n,' x ', i, ' = ',a)



for n in range(2,21):

    print("Table of ", n)

#Call the function

    multi()
```

Parameterized Function:

```
#Parameterized Function Program to print Multiplication tables from 2 to 20 whether table values entered by user

#Create a user defined function

def multi(num):
```

```
#Print the table of range 2 to 20
    for i in range(1,11):
        a=n*i
        print(n,' x ', i, ' = ',a)

for n in range(2,21):
    print("Table of ", n)
#Call the function
    multi(n)
```

Return Type Function:

#Return Type Function Program to print Multiplication tables from 2 to 20 whether table values entered by user

```
#Create a user defined function
def multi():
#Print the table of range 2 to 20
   for i in range(1,11):
      a=n*i
      print (n,' x ', i, ' = ',a)
#Return the value
   return print("\n")
```

```
for n in range(2,21):
    print("Table of ", n)
#Call the function
    multi()
```

Return Type Parameterized Function:

#Return Type Parameterized Function Program to print Multiplication tables from 2 to 20 whether table values entered by user

```
#Create a user defined function
def multi(num):
#Print the table of range 2 to 20
    for i in range(1,11):
        a=n*i
        print(n, ' x ', i, ' = ',a)
    return print("\n")

for n in range(2,21):
    print("Table of",n)
#Call the function
    multi(n)
```

Screenshots:

1. **To calculate area of 10 different circles:**

Simple Function:

```
#Simple Function Program to  calculate area of 10 different circles. Given the pie = 22/7 and radius of the circles entered by user
#Create a user-defined function
def findarea():
#Accept the input from the user for radius of the circle
    a=int(input("Enter radius of circle:"))
#Value of pi
    pi=22/7
#Calculate the area of circle
    area= pi*a*a
#Print the area of circle
    print("Area of the circle",area)


#Accept the input from user to print the area of how many circles
n=int(input("Enter number of circles to calculate the area:"))
for n in range(1,n+1):
#Call the function
    findarea()
```

Parameterized Function:

```
#Parameterized Function Program to  calculate area of 10 different circles. Given the pie = 22/7 and radius of the circles entered by user
#Create a user defined function
def findarea(radius):
#Accept the input from the user for radius of the circle
    a=int(input("Enter radius of circle:"))
#Value of pi
    pi=22/7
#Calculate the area of circle
    area= pi*a*a
#Print the area of the circle
    print("Area of the circle",area)


#Accept the input from user to print the area of how many circles
n=int(input("Enter number of circles to calculate the area:"))
for n in range(1,n+1):
#Call the function
    findarea(n)
```

Return Type Function:

```
#Return Type with Function Program to  calculate area of 10 different circles.
Given the pie = 22/7 and radius of the circles entered by user
# Create a user defined function
def findarea():
#Accept the input from the user for radius of the circle
    a=int(input("Enter radius of circle:"))
#Value of pi 22/7
    pi=22/7
#Calculate the area of circle
    area= pi*a*a
#Print the area of the circle
    print("Area of the circle",area)
#Return the value
    return area


#Accept the input of number of circles from the user
n=int(input("Enter number of circles to calculate the area:"))
for n in range(1,n+1):
#Call the function
    findarea()
```

Return Type Parameterized Function:

```
#Return Type with Parameterized Function Program to  calculate area of 10
different circles. Given the pie = 22/7 and radius of the circles entered by user
#Create a user defined function
def findarea(radius):
#Accept the input from the user for radius of the circle
    a=int(input("Enter radius of circle:"))
#Value of pi 22/7
    pi=22/7
#Calculate the area of circle
    area= pi*a*a
#Print the area of the circle
    print("Area of the circle",area)
#Return the value
    return area


#Accept the input of number of circles from the user
n=int(input("Enter number of circles to calculate the area:"))
for n in range(1,n+1):
#Call the function
    findarea(n)
```

2. To print the multiplication tables from 2 to 20

Simple Function:

```
#Simple Function Program to print Multiplication tables from 2 to 20 whether
table values entered by user
#Create a user defined function
def multi():
#Print the table of range 2 to 20
    for i in range(1,11):
        a=n*i
        print(n,' x ', i, ' = ',a)


for n in range(2,21):
    print("Table of ", n)
#Call the function
    multi()
```

Parameterized Function:

```
#Parameterized Function Program to print Multiplication tables from 2 to 20
whether table values entered by user
#Create a user defined function
def multi(num):
#Print the table of range 2 to 20
    for i in range(1,11):
        a=n*i
        print(n,' x ', i, ' = ',a)

for n in range(2,21):
    print("Table of ", n)
#Call the function
    multi(n)
```

Return Type Function:

```
#Return Type Function Program to print Multiplication tables from 2 to 20
whether table values entered by user
#Create a user defined function
def multi():
#Print the table of range 2 to 20
    for i in range(1,11):
        a=n*i
        print (n,' x ', i, ' = ',a)
#Return the value
    return print("\n")


for n in range(2,21):
    print("Table of ", n)
#Call the function
    multi()
```

Return Type Parameterized Function:

```
#Return Type Parameterized Function Program to print Multiplication tables from 2 to 20 whether table values entered by user

#Create a user defined function
def multi(num):
#Print the table of range 2 to 20
    for i in range(1,11):
        a=n*i
        print(n, ' x ', i, ' = ',a)
    return print("\n")

for n in range(2,21):
    print("Table of",n)
#Call the function
    multi(n)
```

Result / Output:

1. **To calculate area of 10 different circles:**

Simple Function:

```
Enter number of circles to calculate the area:10
Enter radius of circle:1
Area of the circle 3.142857142857143
Enter radius of circle:2
Area of the circle 12.571428571428571
Enter radius of circle:3
Area of the circle 28.285714285714285
Enter radius of circle:4
Area of the circle 50.285714285714285
Enter radius of circle:5
Area of the circle 78.57142857142857
Enter radius of circle:6
Area of the circle 113.14285714285714
Enter radius of circle:7
Area of the circle 154.0
Enter radius of circle:8
Area of the circle 201.14285714285714
Enter radius of circle:9
Area of the circle 254.57142857142856
Enter radius of circle:10
Area of the circle 314.2857142857143
```

Parameterized Function:

```
PS C:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code> python -u "c:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code\Exp
Enter number of circles to calculate the area:10
Enter radius of circle:2
Area of the circle 12.571428571428571
Enter radius of circle:4
Area of the circle 50.285714285714285
Enter radius of circle:6
Area of the circle 113.14285714285714
Enter radius of circle:8
Area of the circle 201.14285714285714
Enter radius of circle:10
Area of the circle 314.2857142857143
Enter radius of circle:12
Area of the circle 452.57142857142856
Enter radius of circle:14
Area of the circle 616.0
Enter radius of circle:16
Area of the circle 804.5714285714286
Enter radius of circle:18
Area of the circle 1018.2857142857142
Enter radius of circle:20
Area of the circle 1257.142857142857
PS C:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code>
```

Return Type Function:

```
PS C:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code> python -u "c:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code\Exp 1.3.
Enter number of circles to calculate the area:10
Enter radius of circle:3
Area of the circle 28.285714285714285
Enter radius of circle:5
Area of the circle 78.57142857142857
Enter radius of circle:6
Area of the circle 113.14285714285714
Enter radius of circle:7
Area of the circle 154.0
Enter radius of circle:9
Area of the circle 254.57142857142856
Enter radius of circle:12
Area of the circle 452.57142857142856
Enter radius of circle:15
Area of the circle 707.1428571428571
Enter radius of circle:20
Area of the circle 1257.142857142857
Enter radius of circle:25
Area of the circle 1964.2857142857142
Enter radius of circle:4
Area of the circle 50.285714285714285
PS C:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code>
```

Return Type Parameterized Function:

```
PS C:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code> python -u "c:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code\Exp 1.3.py"
Enter number of circles to calculate the area:10
Enter radius of circle:5
Area of the circle 78.57142857142857
Enter radius of circle:10
Area of the circle 314.2857142857143
Enter radius of circle:15
Area of the circle 707.1428571428571
Enter radius of circle:20
Area of the circle 1257.142857142857
Enter radius of circle:25
Area of the circle 1964.2857142857142
Enter radius of circle:30
Area of the circle 2828.5714285714284
Enter radius of circle:35
Area of the circle 3850.0
Enter radius of circle:40
Area of the circle 5028.571428571428
Enter radius of circle:45
Area of the circle 6364.285714285714
Enter radius of circle:50
Area of the circle 7857.142857142857
PS C:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code>
```

2. To print the tables from 2 to 20:

Simple Function:

```
PS C:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code> python -u "c:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code\Exp 1.3.py"
Table of  2
2  x  1  =  2
2  x  2  =  4
2  x  3  =  6
2  x  4  =  8
2  x  5  =  10
2  x  6  =  12
2  x  7  =  14
2  x  8  =  16
2  x  9  =  18
2  x  10  =  20
Table of  3
3  x  1  =  3
3  x  2  =  6
3  x  3  =  9
3  x  4  =  12
3  x  5  =  15
3  x  6  =  18
3  x  7  =  21
3  x  8  =  24
3  x  9  =  27
3  x  10  =  30
Table of  4
4  x  1  =  4
4  x  2  =  8
4  x  3  =  12
4  x  4  =  16
4  x  5  =  20
4  x  6  =  24
4  x  7  =  28
4  x  8  =  32
4  x  9  =  36
4  x  10  =  40
Table of  5
5  x  1  =  5
5  x  2  =  10
5  x  3  =  15
5  x  4  =  20
5  x  5  =  25
5  x  6  =  30
5  x  7  =  35
5  x  8  =  40
5  x  9  =  45
5  x  10  =  50
```

```
Table of  6
6  x  1  =  6
6  x  2  =  12
6  x  3  =  18
6  x  4  =  24
6  x  5  =  30
6  x  6  =  36
6  x  7  =  42
6  x  8  =  48
6  x  9  =  54
6  x  10  =  60
Table of  7
7  x  1  =  7
7  x  2  =  14
7  x  3  =  21
7  x  4  =  28
7  x  5  =  35
7  x  6  =  42
7  x  7  =  49
7  x  8  =  56
7  x  9  =  63
7  x  10  =  70
Table of  8
8  x  1  =  8
8  x  2  =  16
8  x  3  =  24
8  x  4  =  32
8  x  5  =  40
8  x  6  =  48
8  x  7  =  56
8  x  8  =  64
8  x  9  =  72
8  x  10  =  80
Table of  9
9  x  1  =  9
9  x  2  =  18
9  x  3  =  27
9  x  4  =  36
9  x  5  =  45
9  x  6  =  54
9  x  7  =  63
9  x  8  =  72
9  x  9  =  81
9  x  10  =  90
```

```
Table of  10
10  x  1  =  10
10  x  2  =  20
10  x  3  =  30
10  x  4  =  40
10  x  5  =  50
10  x  6  =  60
10  x  7  =  70
10  x  8  =  80
10  x  9  =  90
10  x  10  =  100
Table of  11
11  x  1  =  11
11  x  2  =  22
11  x  3  =  33
11  x  4  =  44
11  x  5  =  55
11  x  6  =  66
11  x  7  =  77
11  x  8  =  88
11  x  9  =  99
11  x  10  =  110
Table of  12
12  x  1  =  12
12  x  2  =  24
12  x  3  =  36
12  x  4  =  48
12  x  5  =  60
12  x  6  =  72
12  x  7  =  84
12  x  8  =  96
12  x  9  =  108
12  x  10  =  120
Table of  13
13  x  1  =  13
13  x  2  =  26
13  x  3  =  39
13  x  4  =  52
13  x  5  =  65
13  x  6  =  78
13  x  7  =  91
13  x  8  =  104
13  x  9  =  117
13  x  10  =  130
```

```
Table of  14
14  x  1  =  14
14  x  2  =  28
14  x  3  =  42
14  x  4  =  56
14  x  5  =  70
14  x  6  =  84
14  x  7  =  98
14  x  8  =  112
14  x  9  =  126
14  x  10  =  140
Table of  15
15  x  1  =  15
15  x  2  =  30
15  x  3  =  45
15  x  4  =  60
15  x  5  =  75
15  x  6  =  90
15  x  7  =  105
15  x  8  =  120
15  x  9  =  135
15  x  10  =  150
Table of  16
16  x  1  =  16
16  x  2  =  32
16  x  3  =  48
16  x  4  =  64
16  x  5  =  80
16  x  6  =  96
16  x  7  =  112
16  x  8  =  128
16  x  9  =  144
16  x  10  =  160
Table of  17
17  x  1  =  17
17  x  2  =  34
17  x  3  =  51
17  x  4  =  68
17  x  5  =  85
17  x  6  =  102
17  x  7  =  119
17  x  8  =  136
17  x  9  =  153
17  x  10  =  170
```

```
Table of  18
18  x  1  =  18
18  x  2  =  36
18  x  3  =  54
18  x  4  =  72
18  x  5  =  90
18  x  6  =  108
18  x  7  =  126
18  x  8  =  144
18  x  9  =  162
18  x  10  =  180
Table of  19
19  x  1  =  19
19  x  2  =  38
19  x  3  =  57
19  x  4  =  76
19  x  5  =  95
19  x  6  =  114
19  x  7  =  133
19  x  8  =  152
19  x  9  =  171
19  x  10  =  190
Table of  20
20  x  1  =  20
20  x  2  =  40
20  x  3  =  60
20  x  4  =  80
20  x  5  =  100
20  x  6  =  120
20  x  7  =  140
20  x  8  =  160
20  x  9  =  180
20  x  10  =  200
```

Parameterized Function:

```
PS C:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code> python -u "c:\Users\YANA SRIVASTAVA\Downloads\Py\Worksheet Code\Exp 1.3.py"
Table of  2
2  x  1  =  2
2  x  2  =  4
2  x  3  =  6
2  x  4  =  8
2  x  5  =  10
2  x  6  =  12
2  x  7  =  14
2  x  8  =  16
2  x  9  =  18
2  x  10  =  20
Table of  3
3  x  1  =  3
3  x  2  =  6
3  x  3  =  9
3  x  4  =  12
3  x  5  =  15
3  x  6  =  18
3  x  7  =  21
3  x  8  =  24
3  x  9  =  27
3  x  10  =  30
Table of  4
4  x  1  =  4
4  x  2  =  8
4  x  3  =  12
4  x  4  =  16
4  x  5  =  20
4  x  6  =  24
4  x  7  =  28
4  x  8  =  32
4  x  9  =  36
4  x  10  =  40
Table of  5
5  x  1  =  5
5  x  2  =  10
5  x  3  =  15
5  x  4  =  20
5  x  5  =  25
5  x  6  =  30
5  x  7  =  35
5  x  8  =  40
5  x  9  =  45
5  x  10  =  50
```

```
Table of  6
6  x  1  =  6
6  x  2  =  12
6  x  3  =  18
6  x  4  =  24
6  x  5  =  30
6  x  6  =  36
6  x  7  =  42
6  x  8  =  48
6  x  9  =  54
6  x  10  =  60
Table of  7
7  x  1  =  7
7  x  2  =  14
7  x  3  =  21
7  x  4  =  28
7  x  5  =  35
7  x  6  =  42
7  x  7  =  49
7  x  8  =  56
7  x  9  =  63
7  x  10  =  70
Table of  8
8  x  1  =  8
8  x  2  =  16
8  x  3  =  24
8  x  4  =  32
8  x  5  =  40
8  x  6  =  48
8  x  7  =  56
8  x  8  =  64
8  x  9  =  72
8  x  10  =  80
Table of  9
9  x  1  =  9
9  x  2  =  18
9  x  3  =  27
9  x  4  =  36
9  x  5  =  45
9  x  6  =  54
9  x  7  =  63
9  x  8  =  72
9  x  9  =  81
9  x  10  =  90
```

```
Table of  10
10  x  1  =  10
10  x  2  =  20
10  x  3  =  30
10  x  4  =  40
10  x  5  =  50
10  x  6  =  60
10  x  7  =  70
10  x  8  =  80
10  x  9  =  90
10  x  10  =  100
Table of  11
11  x  1  =  11
11  x  2  =  22
11  x  3  =  33
11  x  4  =  44
11  x  5  =  55
11  x  6  =  66
11  x  7  =  77
11  x  8  =  88
11  x  9  =  99
11  x  10  =  110
Table of  12
12  x  1  =  12
12  x  2  =  24
12  x  3  =  36
12  x  4  =  48
12  x  5  =  60
12  x  6  =  72
12  x  7  =  84
12  x  8  =  96
12  x  9  =  108
12  x  10  =  120
Table of  13
13  x  1  =  13
13  x  2  =  26
13  x  3  =  39
13  x  4  =  52
13  x  5  =  65
13  x  6  =  78
13  x  7  =  91
13  x  8  =  104
13  x  9  =  117
13  x  10  =  130
```

```
Table of  14
14  x  1  =  14
14  x  2  =  28
14  x  3  =  42
14  x  4  =  56
14  x  5  =  70
14  x  6  =  84
14  x  7  =  98
14  x  8  =  112
14  x  9  =  126
14  x  10  =  140
Table of  15
15  x  1  =  15
15  x  2  =  30
15  x  3  =  45
15  x  4  =  60
15  x  5  =  75
15  x  6  =  90
15  x  7  =  105
15  x  8  =  120
15  x  9  =  135
15  x  10  =  150
Table of  16
16  x  1  =  16
16  x  2  =  32
16  x  3  =  48
16  x  4  =  64
16  x  5  =  80
16  x  6  =  96
16  x  7  =  112
16  x  8  =  128
16  x  9  =  144
16  x  10  =  160
Table of  17
17  x  1  =  17
17  x  2  =  34
17  x  3  =  51
17  x  4  =  68
17  x  5  =  85
17  x  6  =  102
17  x  7  =  119
17  x  8  =  136
17  x  9  =  153
17  x  10  =  170
```

```
Table of  18
18  x  1  =  18
18  x  2  =  36
18  x  3  =  54
18  x  4  =  72
18  x  5  =  90
18  x  6  =  108
18  x  7  =  126
18  x  8  =  144
18  x  9  =  162
18  x  10  =  180
Table of  19
19  x  1  =  19
19  x  2  =  38
19  x  3  =  57
19  x  4  =  76
19  x  5  =  95
19  x  6  =  114
19  x  7  =  133
19  x  8  =  152
19  x  9  =  171
19  x  10  =  190
Table of  20
20  x  1  =  20
20  x  2  =  40
20  x  3  =  60
20  x  4  =  80
20  x  5  =  100
20  x  6  =  120
20  x  7  =  140
20  x  8  =  160
20  x  9  =  180
20  x  10  =  200
```

Return Type Function:

```
Table of  2
2  x  1  =  2
2  x  2  =  4
2  x  3  =  6
2  x  4  =  8
2  x  5  =  10
2  x  6  =  12
2  x  7  =  14
2  x  8  =  16
2  x  9  =  18
2  x  10  =  20


Table of  3
3  x  1  =  3
3  x  2  =  6
3  x  3  =  9
3  x  4  =  12
3  x  5  =  15
3  x  6  =  18
3  x  7  =  21
3  x  8  =  24
3  x  9  =  27
3  x  10  =  30


Table of  4
4  x  1  =  4
4  x  2  =  8
4  x  3  =  12
4  x  4  =  16
4  x  5  =  20
4  x  6  =  24
4  x  7  =  28
4  x  8  =  32
4  x  9  =  36
4  x  10  =  40
```

```
Table of  5
5  x  1  =  5
5  x  2  =  10
5  x  3  =  15
5  x  4  =  20
5  x  5  =  25
5  x  6  =  30
5  x  7  =  35
5  x  8  =  40
5  x  9  =  45
5  x  10  =  50


Table of  6
6  x  1  =  6
6  x  2  =  12
6  x  3  =  18
6  x  4  =  24
6  x  5  =  30
6  x  6  =  36
6  x  7  =  42
6  x  8  =  48
6  x  9  =  54
6  x  10  =  60


Table of  7
7  x  1  =  7
7  x  2  =  14
7  x  3  =  21
7  x  4  =  28
7  x  5  =  35
7  x  6  =  42
7  x  7  =  49
7  x  8  =  56
7  x  9  =  63
7  x  10  =  70
```

```
Table of  8
8  x  1  =  8
8  x  2  =  16
8  x  3  =  24
8  x  4  =  32
8  x  5  =  40
8  x  6  =  48
8  x  7  =  56
8  x  8  =  64
8  x  9  =  72
8  x  10  =  80


Table of  9
9  x  1  =  9
9  x  2  =  18
9  x  3  =  27
9  x  4  =  36
9  x  5  =  45
9  x  6  =  54
9  x  7  =  63
9  x  8  =  72
9  x  9  =  81
9  x  10  =  90


Table of  10
10  x  1  =  10
10  x  2  =  20
10  x  3  =  30
10  x  4  =  40
10  x  5  =  50
10  x  6  =  60
10  x  7  =  70
10  x  8  =  80
10  x  9  =  90
10  x  10  =  100
```

```
Table of  11
11  x  1  =  11
11  x  2  =  22
11  x  3  =  33
11  x  4  =  44
11  x  5  =  55
11  x  6  =  66
11  x  7  =  77
11  x  8  =  88
11  x  9  =  99
11  x  10  =  110


Table of  12
12  x  1  =  12
12  x  2  =  24
12  x  3  =  36
12  x  4  =  48
12  x  5  =  60
12  x  6  =  72
12  x  7  =  84
12  x  8  =  96
12  x  9  =  108
12  x  10  =  120


Table of  13
13  x  1  =  13
13  x  2  =  26
13  x  3  =  39
13  x  4  =  52
13  x  5  =  65
13  x  6  =  78
13  x  7  =  91
13  x  8  =  104
13  x  9  =  117
13  x  10  =  130
```

```
Table of  14
14  x  1  =  14
14  x  2  =  28
14  x  3  =  42
14  x  4  =  56
14  x  5  =  70
14  x  6  =  84
14  x  7  =  98
14  x  8  =  112
14  x  9  =  126
14  x  10  =  140


Table of  15
15  x  1  =  15
15  x  2  =  30
15  x  3  =  45
15  x  4  =  60
15  x  5  =  75
15  x  6  =  90
15  x  7  =  105
15  x  8  =  120
15  x  9  =  135
15  x  10  =  150


Table of  16
16  x  1  =  16
16  x  2  =  32
16  x  3  =  48
16  x  4  =  64
16  x  5  =  80
16  x  6  =  96
16  x  7  =  112
16  x  8  =  128
16  x  9  =  144
16  x  10  =  160
```

```
Table of  17
17  x  1  =  17
17  x  2  =  34
17  x  3  =  51
17  x  4  =  68
17  x  5  =  85
17  x  6  =  102
17  x  7  =  119
17  x  8  =  136
17  x  9  =  153
17  x  10  =  170


Table of  18
18  x  1  =  18
18  x  2  =  36
18  x  3  =  54
18  x  4  =  72
18  x  5  =  90
18  x  6  =  108
18  x  7  =  126
18  x  8  =  144
18  x  9  =  162
18  x  10  =  180


Table of  19
19  x  1  =  19
19  x  2  =  38
19  x  3  =  57
19  x  4  =  76
19  x  5  =  95
19  x  6  =  114
19  x  7  =  133
19  x  8  =  152
19  x  9  =  171
19  x  10  =  190
```

```
Table of  20
20  x  1  =  20
20  x  2  =  40
20  x  3  =  60
20  x  4  =  80
20  x  5  =  100
20  x  6  =  120
20  x  7  =  140
20  x  8  =  160
20  x  9  =  180
20  x  10  =  200
```

Return Type Parameterized Function:

```
Table of  2
2  x  1  =  2
2  x  2  =  4
2  x  3  =  6
2  x  4  =  8
2  x  5  =  10
2  x  6  =  12
2  x  7  =  14
2  x  8  =  16
2  x  9  =  18
2  x  10  =  20


Table of  3
3  x  1  =  3
3  x  2  =  6
3  x  3  =  9
3  x  4  =  12
3  x  5  =  15
3  x  6  =  18
3  x  7  =  21
3  x  8  =  24
3  x  9  =  27
3  x  10  =  30


Table of  4
4  x  1  =  4
4  x  2  =  8
4  x  3  =  12
4  x  4  =  16
4  x  5  =  20
4  x  6  =  24
4  x  7  =  28
4  x  8  =  32
4  x  9  =  36
4  x  10  =  40
```

```
Table of  5
5  x  1  =  5
5  x  2  =  10
5  x  3  =  15
5  x  4  =  20
5  x  5  =  25
5  x  6  =  30
5  x  7  =  35
5  x  8  =  40
5  x  9  =  45
5  x  10  =  50


Table of  6
6  x  1  =  6
6  x  2  =  12
6  x  3  =  18
6  x  4  =  24
6  x  5  =  30
6  x  6  =  36
6  x  7  =  42
6  x  8  =  48
6  x  9  =  54
6  x  10  =  60


Table of  7
7  x  1  =  7
7  x  2  =  14
7  x  3  =  21
7  x  4  =  28
7  x  5  =  35
7  x  6  =  42
7  x  7  =  49
7  x  8  =  56
7  x  9  =  63
7  x  10  =  70
```

```
Table of  8
8  x  1  =  8
8  x  2  =  16
8  x  3  =  24
8  x  4  =  32
8  x  5  =  40
8  x  6  =  48
8  x  7  =  56
8  x  8  =  64
8  x  9  =  72
8  x  10  =  80


Table of  9
9  x  1  =  9
9  x  2  =  18
9  x  3  =  27
9  x  4  =  36
9  x  5  =  45
9  x  6  =  54
9  x  7  =  63
9  x  8  =  72
9  x  9  =  81
9  x  10  =  90


Table of  10
10  x  1  =  10
10  x  2  =  20
10  x  3  =  30
10  x  4  =  40
10  x  5  =  50
10  x  6  =  60
10  x  7  =  70
10  x  8  =  80
10  x  9  =  90
10  x  10  =  100
```

```
Table of  11
11  x  1  =  11
11  x  2  =  22
11  x  3  =  33
11  x  4  =  44
11  x  5  =  55
11  x  6  =  66
11  x  7  =  77
11  x  8  =  88
11  x  9  =  99
11  x  10  =  110


Table of  12
12  x  1  =  12
12  x  2  =  24
12  x  3  =  36
12  x  4  =  48
12  x  5  =  60
12  x  6  =  72
12  x  7  =  84
12  x  8  =  96
12  x  9  =  108
12  x  10  =  120


Table of  13
13  x  1  =  13
13  x  2  =  26
13  x  3  =  39
13  x  4  =  52
13  x  5  =  65
13  x  6  =  78
13  x  7  =  91
13  x  8  =  104
13  x  9  =  117
13  x  10  =  130
```

```
Table of  14
14  x  1  =  14
14  x  2  =  28
14  x  3  =  42
14  x  4  =  56
14  x  5  =  70
14  x  6  =  84
14  x  7  =  98
14  x  8  =  112
14  x  9  =  126
14  x  10  =  140


Table of  15
15  x  1  =  15
15  x  2  =  30
15  x  3  =  45
15  x  4  =  60
15  x  5  =  75
15  x  6  =  90
15  x  7  =  105
15  x  8  =  120
15  x  9  =  135
15  x  10  =  150


Table of  16
16  x  1  =  16
16  x  2  =  32
16  x  3  =  48
16  x  4  =  64
16  x  5  =  80
16  x  6  =  96
16  x  7  =  112
16  x  8  =  128
16  x  9  =  144
16  x  10  =  160
```

```
Table of  17
17  x  1  =  17
17  x  2  =  34
17  x  3  =  51
17  x  4  =  68
17  x  5  =  85
17  x  6  =  102
17  x  7  =  119
17  x  8  =  136
17  x  9  =  153
17  x  10  =  170


Table of  18
18  x  1  =  18
18  x  2  =  36
18  x  3  =  54
18  x  4  =  72
18  x  5  =  90
18  x  6  =  108
18  x  7  =  126
18  x  8  =  144
18  x  9  =  162
18  x  10  =  180


Table of  19
19  x  1  =  19
19  x  2  =  38
19  x  3  =  57
19  x  4  =  76
19  x  5  =  95
19  x  6  =  114
19  x  7  =  133
19  x  8  =  152
19  x  9  =  171
19  x  10  =  190
```

```
Table of  20
20  x  1  =  20
20  x  2  =  40
20  x  3  =  60
20  x  4  =  80
20  x  5  =  100
20  x  6  =  120
20  x  7  =  140
20  x  8  =  160
20  x  9  =  180
20  x  10  =  200
```

Learning Outcomes:

1. Learn how to implement all the functions in python
2. Learn about return and without return functions concept.
3. Learn about arguments.
4. Learn about difference between simple and parameterized function.
5. Learn how to write code in python, about indentation.