

**YANA SRIVASTAVA**

**20BCS2279**

**23”B”**

**Foundations of AI Applications Lab**

**HOME TASK**

**EXPERIMENT – 2**

**Task-1:**

Prepared By: Divneet Singh Kapoor & Kiran Jot Singh

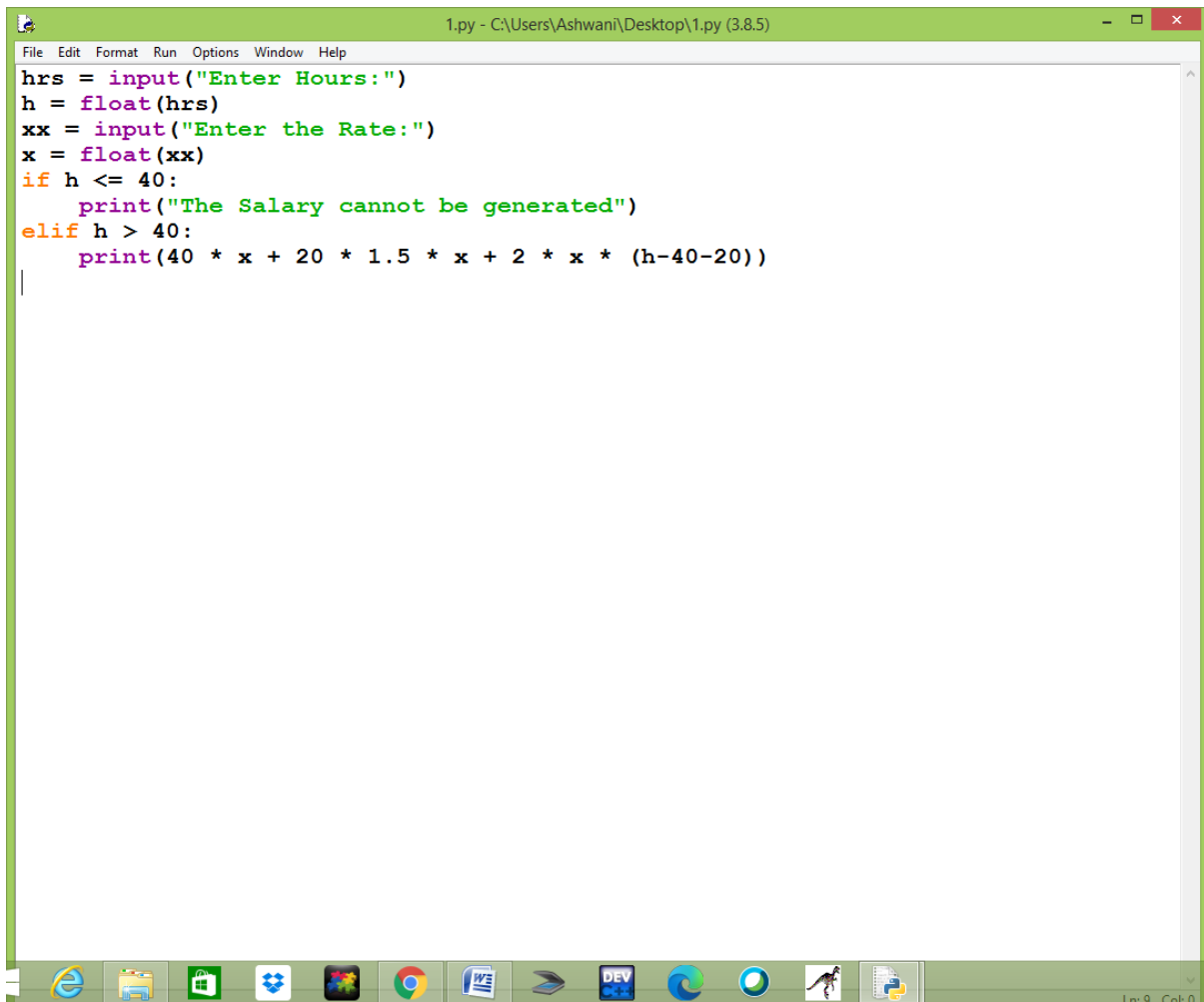
- ▶ **Create a program wages.py that assumes people are paid double time for hours over 60. They get paid for at most 20 hours overtime at 1.5 times the normal rate.**
- ▶ **For example, a person working 65 hours with a regular wage of \$10 per hour would work at \$10 per hour for 40 hours, at 1.5 \* \$10 for 20 hours of overtime, and 2 \* \$10 for 5 hours of double time, for a total of**
- ▶  **$10*40 + 1.5*10*20 + 2*10*5 = \$800$ .**
- ▶ **The number of hours should be generated randomly between 35 and 75.**
- ▶ **If the number of working hours is less than 40, display message “The salary cannot be generated” with sound of system bell as a warning.**

### **Requirements:**

Computer with Python Program installed in it.

### **Code:**

```
hrs = input("Enter Hours:")  
h = float(hrs)  
xx = input("Enter the Rate:")  
x = float(xx)  
if h <= 40:  
    print("The Salary cannot be generated")  
elif h > 40:  
    print(40 * x + 20 * 1.5 * x + 2 * x * (h-40-20))
```



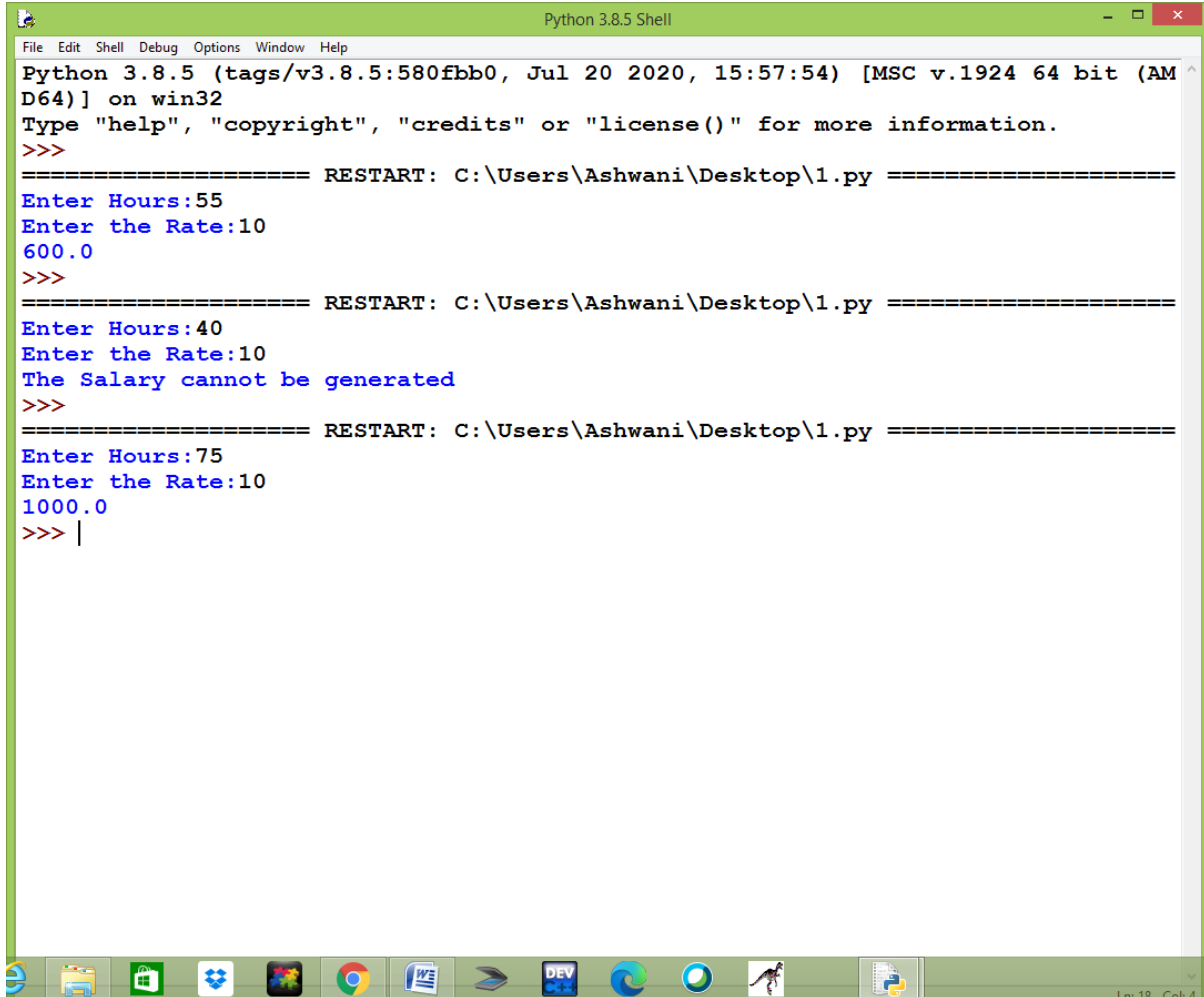
```
1.py - C:\Users\Ashwani\Desktop\1.py (3.8.5)
File Edit Format Run Options Window Help
hrs = input("Enter Hours:")
h = float(hrs)
xx = input("Enter the Rate:")
x = float(xx)
if h <= 40:
    print("The Salary cannot be generated")
elif h > 40:
    print(40 * x + 20 * 1.5 * x + 2 * x * (h-40-20))
```

The screenshot shows a Python IDE window titled "1.py - C:\Users\Ashwani\Desktop\1.py (3.8.5)". The window contains a Python script with the following code:

```
hrs = input("Enter Hours:")
h = float(hrs)
xx = input("Enter the Rate:")
x = float(xx)
if h <= 40:
    print("The Salary cannot be generated")
elif h > 40:
    print(40 * x + 20 * 1.5 * x + 2 * x * (h-40-20))
```

The IDE window has a menu bar with "File", "Edit", "Format", "Run", "Options", "Window", and "Help". The taskbar at the bottom shows various application icons including Edge, File Explorer, Teams, OneDrive, Chrome, Word, Mail, DEV, and a dinosaur icon. The status bar at the bottom right indicates "Ln: 9 - Col: 0".

## Outcome:



```
Python 3.8.5 Shell
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Ashwani\Desktop\1.py =====
Enter Hours:55
Enter the Rate:10
600.0
>>>
===== RESTART: C:\Users\Ashwani\Desktop\1.py =====
Enter Hours:40
Enter the Rate:10
The Salary cannot be generated
>>>
===== RESTART: C:\Users\Ashwani\Desktop\1.py =====
Enter Hours:75
Enter the Rate:10
1000.0
>>> |
```

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## Task-2:

**WAP to take word input from user and display the input in jumbled form eg.**

**Input – game**

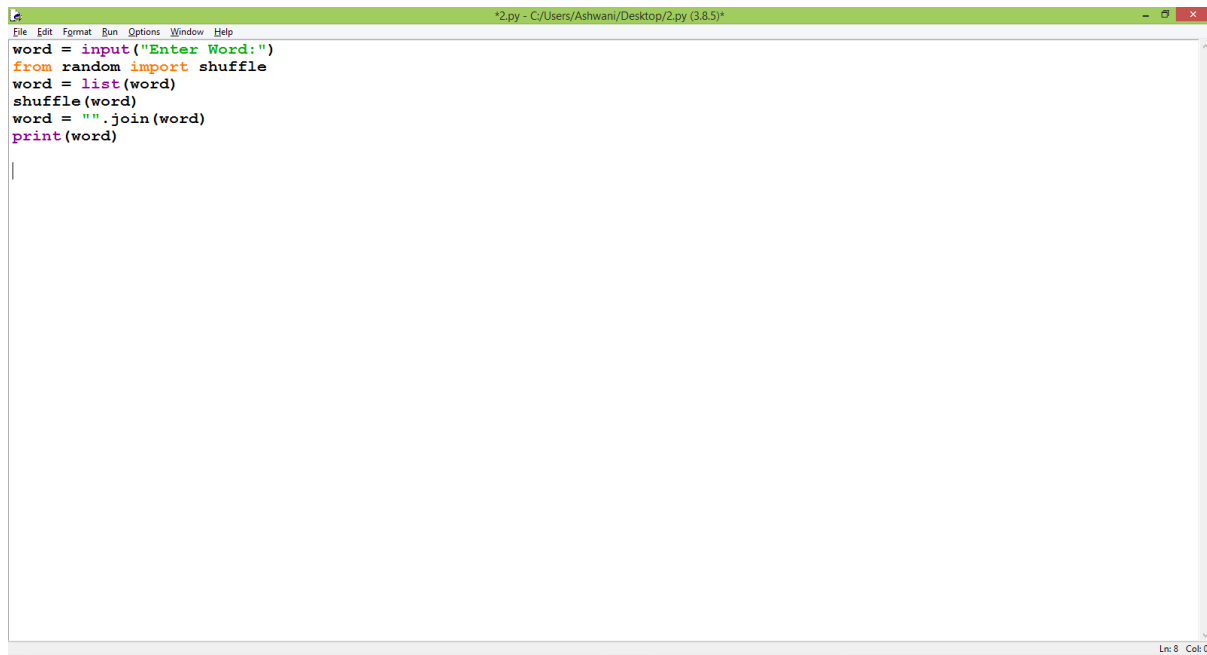
**Output – agme**

## Requirements:

Computer with Python Program installed in it.

## Code:

```
word = input("Enter Word:")  
from random import shuffle  
word = list(word)  
shuffle(word)  
word = "".join(word)  
print(word)
```

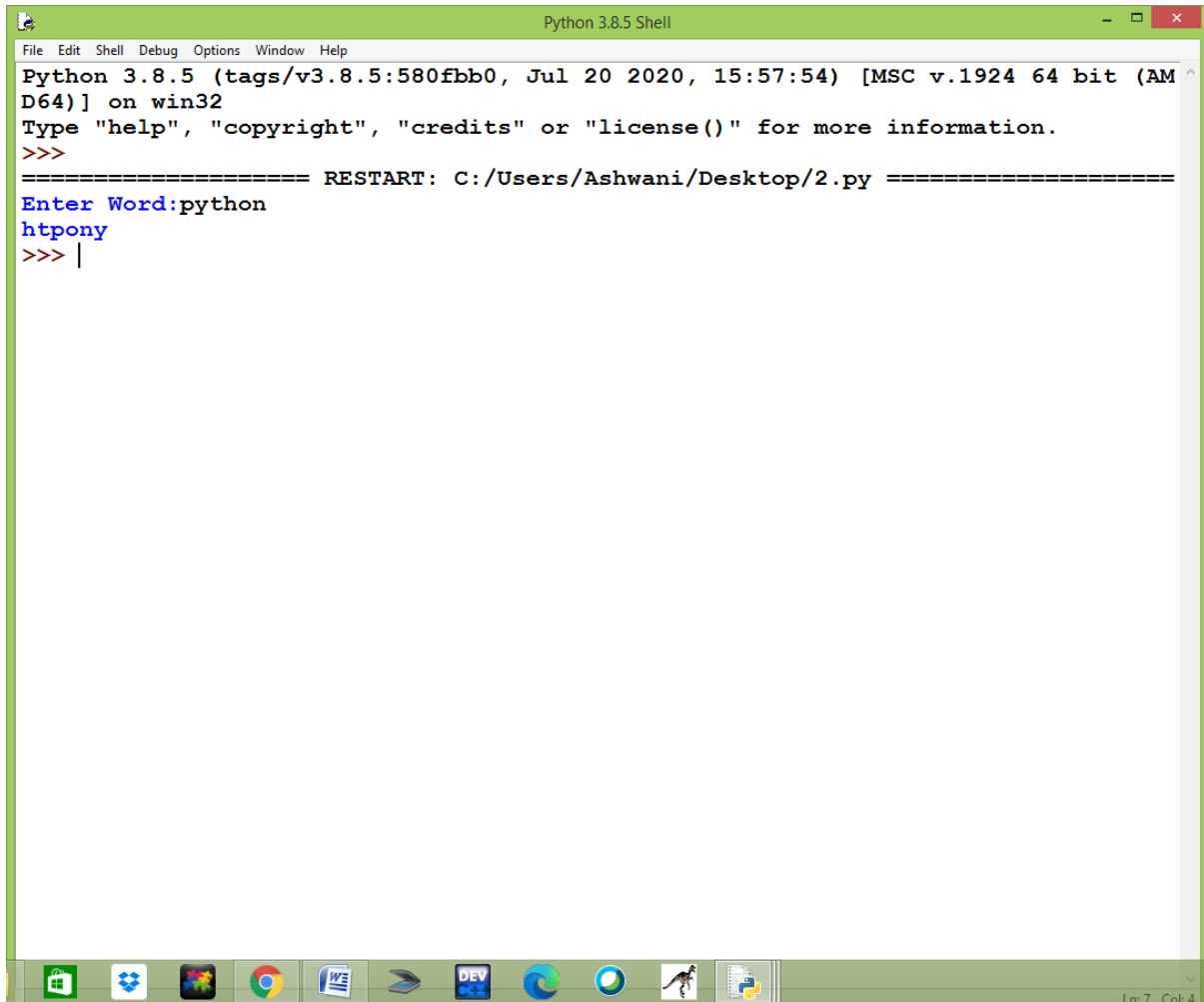


The screenshot shows a Python IDE window titled '\*2.py - C:/Users/Ashwani/Desktop/2.py (3.8.5)\*'. The code in the editor is as follows:

```
word = input("Enter Word:")  
from random import shuffle  
word = list(word)  
shuffle(word)  
word = "".join(word)  
print(word)
```

The IDE interface includes a menu bar (File, Edit, Format, Run, Options, Window, Help) and a status bar at the bottom right indicating 'Ln:8 Col:0'.

## Outcome:



```
Python 3.8.5 Shell
File Edit Shell Debug Options Window Help
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/Ashwani/Desktop/2.py =====
Enter Word:python
htpony
>>> |
```