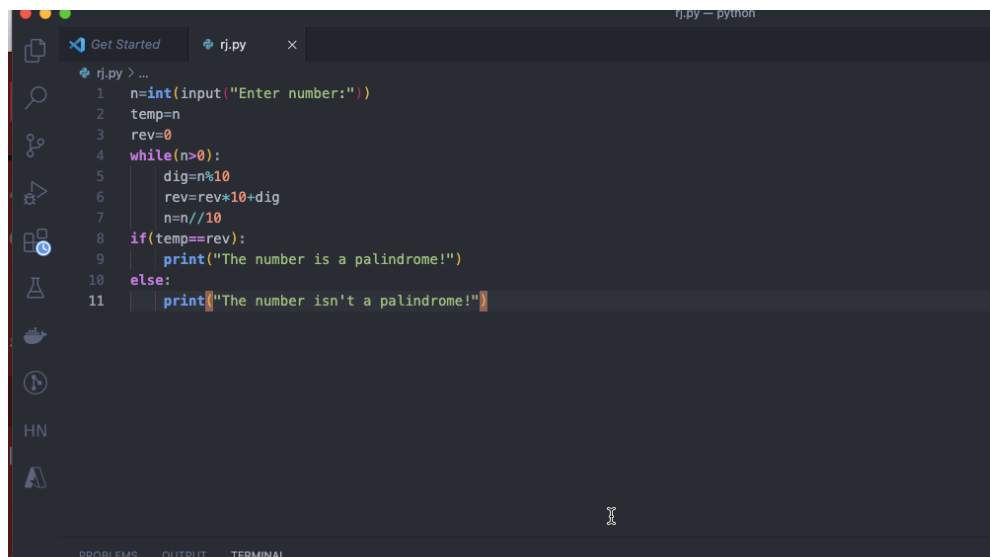


NAME –  
UID –  
SUBJECT PYTHON LAB  
EXP - 1.2  
D.O.F – 24/02/22  
BRANCH CSE (B.TECH/ B.E)  
SEC-

1. Python Program to check whether a given number is a palindrome.

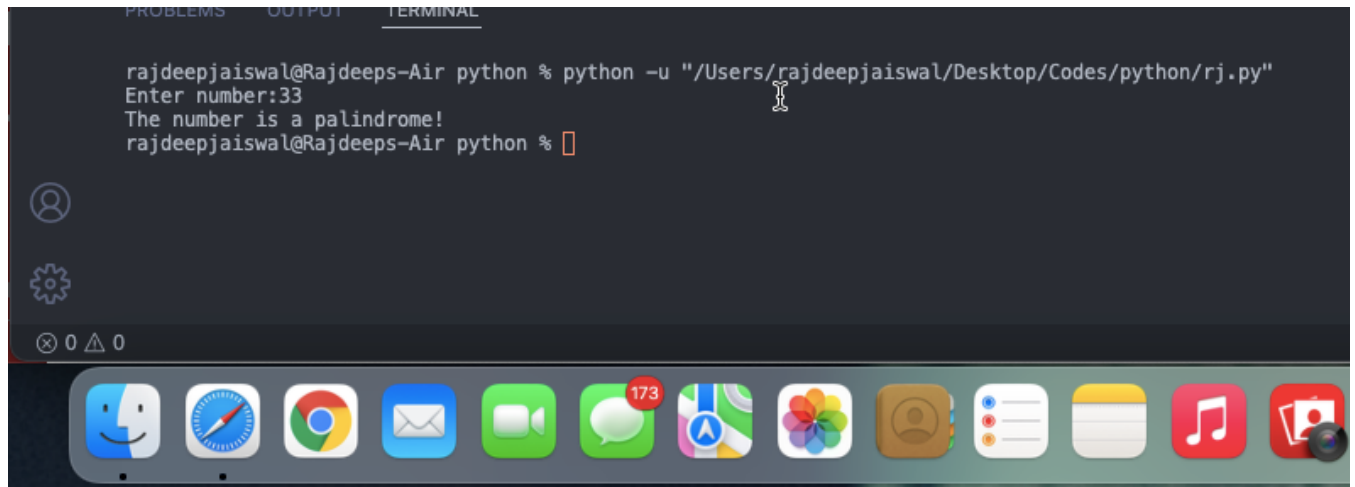
```
n=int(input("Enter number:"))
temp=n
rev=0
while(n>0):
    dig=n%10
    rev=rev*10+dig
    n=n//10
if(temp==rev):
    print("The number is a palindrome!")
else:
    print("The number isn't a palindrome!")
```

CODE IN COMPILER –



The image shows a screenshot of a code editor window titled 'rj.py - python'. The editor contains the same Python code as shown in the previous block. The code is: `n=int(input("Enter number:"))`, `temp=n`, `rev=0`, `while(n>0):` with indented lines `dig=n%10`, `rev=rev*10+dig`, and `n=n//10`, followed by `if(temp==rev):` with indented `print("The number is a palindrome!")`, and `else:` with indented `print("The number isn't a palindrome!")`. The editor interface includes a sidebar with icons for file explorer, search, and other tools, and a bottom status bar with 'PROBLEMS', 'OUTPUT', and 'TERMINAL' tabs.

## OUTPUT



```
PROBLEMS OUTPUT TERMINAL
rajdeepjaiswal@Rajdeeps-Air python % python -u "/Users/rajdeepjaiswal/Desktop/Codes/python/rj.py"
Enter number:33
The number is a palindrome!
rajdeepjaiswal@Rajdeeps-Air python %
```

2 .Python Program to check Whether entered number is Armstrong or Not?

## CODE-

```
# Python program to check if the number is an Armstrong number or not

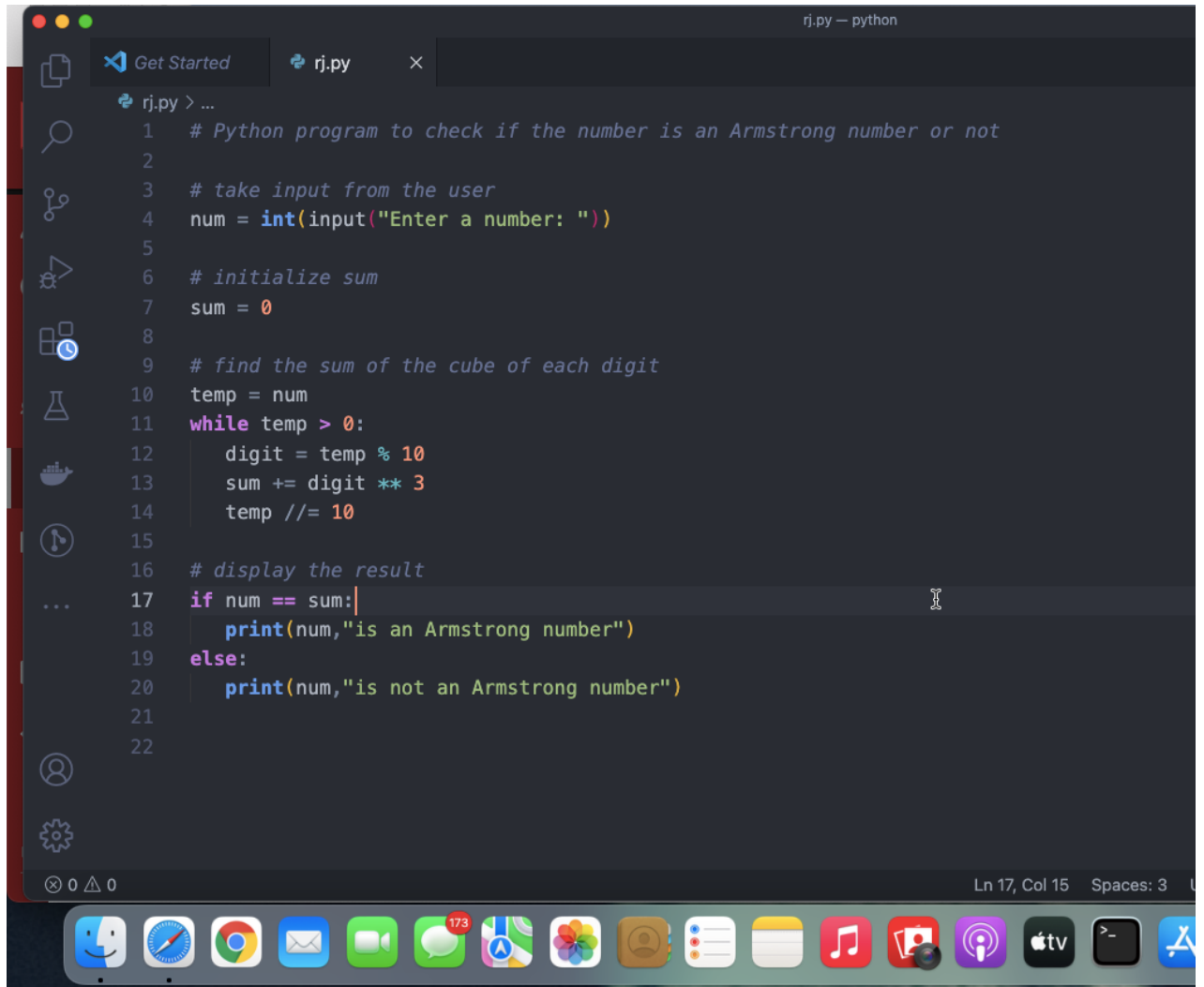
# take input from the user
num = int(input("Enter a number: "))

# initialize sum
sum = 0

# find the sum of the cube of each digit
temp = num
while temp > 0:
    digit = temp % 10
    sum += digit ** 3
    temp //= 10

# display the result
if num == sum:
    print(num,"is an Armstrong number")
else:
    print(num,"is not an Armstrong number")
```

## CODE IN COMPILER

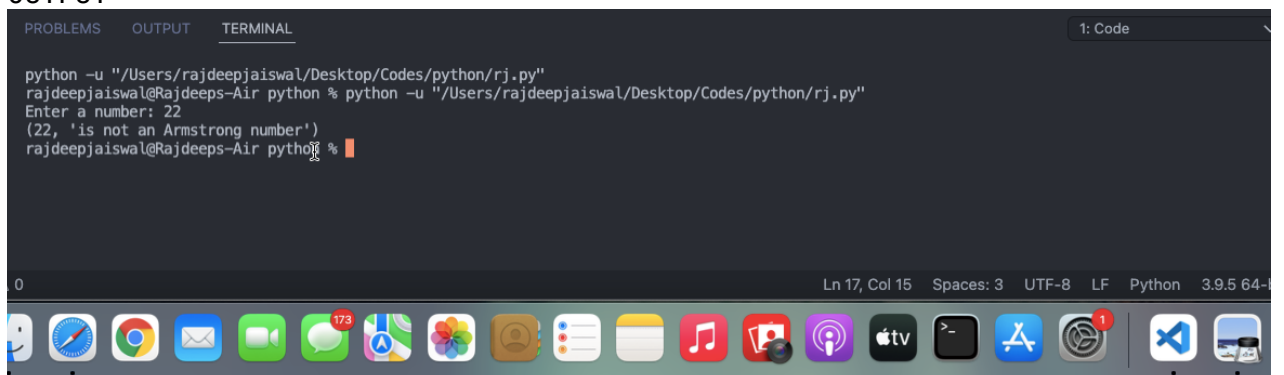


The screenshot shows a code editor window titled "rj.py - python". The code is as follows:

```
1 # Python program to check if the number is an Armstrong number or not
2
3 # take input from the user
4 num = int(input("Enter a number: "))
5
6 # initialize sum
7 sum = 0
8
9 # find the sum of the cube of each digit
10 temp = num
11 while temp > 0:
12     digit = temp % 10
13     sum += digit ** 3
14     temp //= 10
15
16 # display the result
17 if num == sum:
18     print(num, "is an Armstrong number")
19 else:
20     print(num, "is not an Armstrong number")
21
22
```

The status bar at the bottom right of the editor shows "Ln 17, Col 15 Spaces: 3". The macOS dock is visible at the bottom with various application icons.

## OUTPUT



The screenshot shows a terminal window with the following output:

```
python -u "/Users/rajdeepjaiswal/Desktop/Codes/python/rj.py"
rajdeepjaiswal@Rajdeeps-Air python % python -u "/Users/rajdeepjaiswal/Desktop/Codes/python/rj.py"
Enter a number: 22
(22, 'is not an Armstrong number')
rajdeepjaiswal@Rajdeeps-Air python %
```

The status bar at the bottom right of the terminal shows "Ln 17, Col 15 Spaces: 3 UTF-8 LF Python 3.9.5 64-bit". The macOS dock is visible at the bottom with various application icons.

### 3 Python Program to Take three numbers from the user and print the greatest number

CODE –

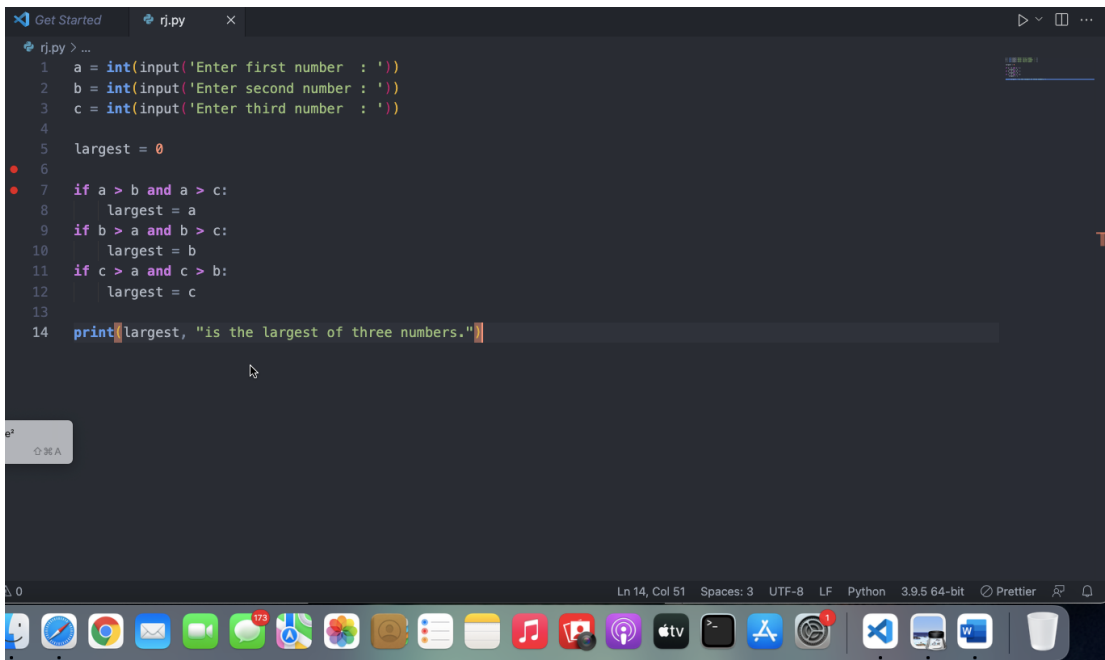
```
a = int(input('Enter first number : '))
b = int(input('Enter second number : '))
c = int(input('Enter third number : '))

largest = 0

if a > b and a > c:
    largest = a
if b > a and b > c:
    largest = b
if c > a and c > b:
    largest = c

print(largest, "is the largest of three numbers.")
```

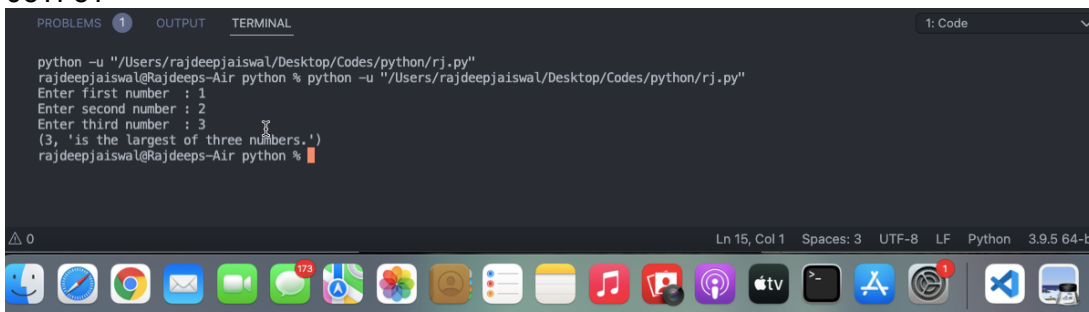
CODE IN COMPILER –

A screenshot of a code editor window titled 'rj.py'. The code is as follows:

```
1 a = int(input('Enter first number : '))
2 b = int(input('Enter second number : '))
3 c = int(input('Enter third number : '))
4
5 largest = 0
6
7 if a > b and a > c:
8     largest = a
9 if b > a and b > c:
10    largest = b
11 if c > a and c > b:
12    largest = c
13
14 print(largest, "is the largest of three numbers.")
```

The editor shows line numbers 1 through 14. The status bar at the bottom indicates 'Ln 14, Col 51, Spaces: 3, UTF-8, LF, Python, 3.9.5 64-bit, Prettier'.

OUTPUT

A screenshot of a terminal window showing the execution of the Python program. The output is as follows:

```
python -u "/Users/rajdeepjaiswal/Desktop/Codes/python/rj.py"
rajdeepjaiswal@Rajdeeps-Air python % python -u "/Users/rajdeepjaiswal/Desktop/Codes/python/rj.py"
Enter first number : 1
Enter second number : 2
Enter third number : 3
(3, 'is the largest of three numbers.')
```

The terminal shows the command being run, the user input for three numbers (1, 2, 3), and the program's output: (3, 'is the largest of three numbers.'). The status bar at the bottom indicates 'Ln 15, Col 1, Spaces: 3, UTF-8, LF, Python, 3.9.5 64-b'.