P.DILLI BABU

192472284

CSA0815

PYTHON PROGRAMMING FOR BLOCK CHAIN PROJECTS

SLOT-B

1. Read the number until -1 is encounter. find the avg of positive numbers and negative numbers entered by user

Sample Input:

Enter -1 to exit, enter the numbers ,-1

```
[] & Share
                                                                   Output
 1 pos_sum = neg_sum = pos_count = neg_count = 0
                                                                 Enter -1 to exit, enter a number: -1
                                                                 avg negative number is 0
 3 - While True:
                                                                 avg positive number is 0
      num = float(input("Enter -1 to exit, enter a number: "))
       if num == -1:
                                                                  === Code Execution Successful ===
           break
 7 + if num > 0:
 10 - elif num < 0:
      neg_sum += num
neg_count += 1
 11
 12
 14 avg_pos = pos_sum // pos_count if pos_count > 0 else 0
15 avg_neg = neg_sum // neg_count if neg_count > 0 else 0
17 print(f"avg negative number is {avg_neg}")
18 print(f"avg positive number is {avg_pos}")
```

2. Write a python program to find the square, cube of the given decimal number.

Sample Input:

Given Number: 0.6

```
[] & & Share
main.py
                                                               Output
1 # Get input from user
                                                              Enter a decimal number: 0.1
 2 number = float(input("Enter a decimal number: "))
                                                              Given Number: 0.1
                                                              Square Number: 0.010000000000000000
                                                              4 # Calculate square and cube
5 square = number ** 2
6 cube = number ** 3
                                                              === Code Execution Successful ===
8 # Print results
9 print(f"Given Number: {number}")
10 print(f"Square Number: {square}")
11 print(f"Cube Number: {cube}")
```

3. Write a python program to print the following pattern.

Sample Input:

Enter the Character to be printed:+

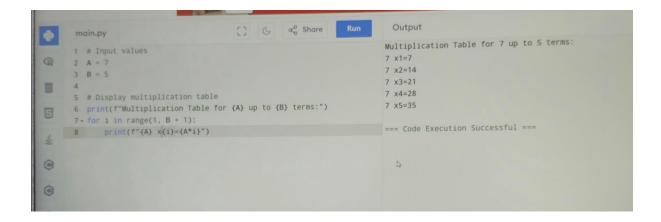


4. Python Program to Display the Multiplication Table

Sample Input:

A=7

B=5



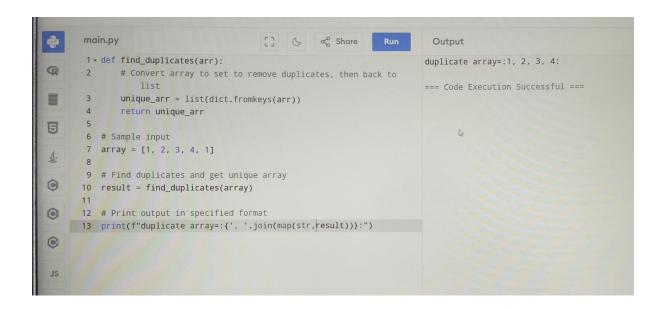
5. Write a program to find whether it is leap year or not?

Sample Input: 2000

```
∝ Share
                                                                        Output
      main.py
       1 - def is_leap_year(year):
                                                                      Enter a year: 20024
Q
      2 # A year is a leap year if it's divisible by 4
             # However, if it's divisible by 100, it must also be
                                                                      === Code Execution Successful ===
=
               divisible by 400
            if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
                return True
      5
9
            return False
      8 # Get input from user
       9 year = int(input("Enter a year: "))
0
      10
      11 # Check and print result
0
      12 - if is_leap_year(year):
      13 print("Leap Year")
0
    15 print("Not a LeapYear")
```

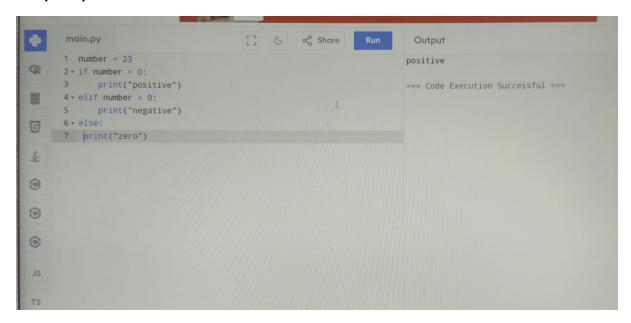
6 Write a program to find out the duplicate array

Sample Input: array={1,2,3,4,1}



7 .Check whether the number is positive or negative

Sample Input:23



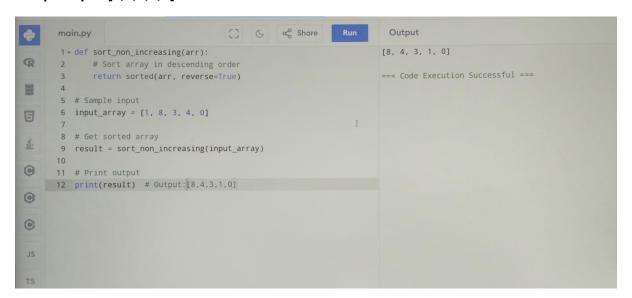
8 .Write a python program to find the average of mean median mode

Sample Input: [12,45,83,52]/4

```
main.py
                                                    ∝ Share
                                                                         Output
       1 from statistics import mean, median, mode
                                                                        Output:48
@
       2 * def average_of_stats(numbers):
             mean_val = mean(numbers)
                                                                        === Code Execution Successful ===
median_val = median(numbers)
       5 -
                mode_val = mode(numbers)
             except:
       8
               mode_val = mean
             result = (mean_val + median_val + mode_val) / 3
      10
0
      11
            return round(result)
      12 input_list = [12, 45, 83, 521/4]
      13 result = average_of_stats(input_list)
0
    14 print(f"Output:{result}")
0
```

9. Write a python program to store the arrays in non-increasing order

Sample Input:[1,8,3,4,0]



10. Write a Python Program to Intersecting an elements

Sample Input:

(2,3,4,5)

(3,4,8,6)

