

main.py



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Output

Clear

```
1 # Initialize counters and sums
2 sum_positive = 0
3 count_positive = 0
4 sum_negative = 0
5 count_negative = 0
6
7 print("Enter -1 to exit, enter the numbers:")
8
9 while True:
10     num = int(input())
11
12     if num == -1:
13         break
14
15     if num > 0:
16         sum_positive += num
17         count_positive += 1
18     elif num < 0:
19         sum_negative += num
20         count_negative += 1
21
22 # Calculate averages
23 if count_positive > 0:
24     avg_positive = sum_positive // count_positive
```

```
Enter -1 to exit, enter the numbers:
7
-1
avg negative number is 0, avg positive number is 7

=== Code Execution Successful ===
```

```
1 positive_numbers = []
2 negative_numbers = []
3
4 while True:
5     num = int(input("Enter number (-1 to exit): "))
6     if num == -1:
7         break
8     if num > 0:
9         positive_numbers.append(num)
10    elif num < 0:
11        negative_numbers.append(num)
12
13 avg_pos = sum(positive_numbers) / len(positive_numbers) if
    positive_numbers else 0
14 avg_neg = sum(negative_numbers) / len(negative_numbers) if
    negative_numbers else 0
15
16 print(f"avg negative number is {int(avg_neg)}, avg positive number is
    {int(avg_pos)}")
17
```

```
Enter number (-1 to exit): 7
Enter number (-1 to exit): 5
Enter number (-1 to exit): -2
Enter number (-1 to exit): 8
Enter number (-1 to exit): -5
Enter number (-1 to exit): 1
Enter number (-1 to exit): -1
avg negative number is -3, avg positive number is 5
```

=== Code Execution Successful ===

```
1 num = float(input("Given Number: "))
2 square = num ** 2
3 cube = num ** 3
4
5 print(f"Square Number: {square}")
6 print(f"Cube Number: {cube}")
7
```

```
Given Number: 10
Square Number: 100.0
Cube Number: 1000.0
```

```
=== Code Execution Successful ===
```

```
1 num = float(input("Given Number: "))
2 square = num ** 2
3 cube = num ** 3
4
5 print(f"Square Number: {square}")
6 print(f"Cube Number: {cube}")
7
```

```
Given Number: 10
Square Number: 100.0
Cube Number: 1000.0
```

```
=== Code Execution Successful ===
```

```
1 A = int(input("A= "))
2 B = int(input("B= "))
3
4 for i in range(1, B + 1):
5     print(f"{A} x {i} = {A*i}")
6
7
```

```
A= 5
B= 10
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
```

```
=== Code Execution Successful ===
```

```
1 year = int(input("Enter year: "))
2
3 if (year % 400 == 0) or (year % 4 == 0 and year % 100 != 0):
4     print("Leap Year")
5 else:
6     print("Not Leap Year")
7
```

Enter year: 2008

Leap Year

=== Code Execution Successful ===

```
1 arr = [1, 2, 3, 4, 1]
2 unique_arr = list(dict.fromkeys(arr)) # preserves order and removes
    duplicates
3 print(f"duplicate array={unique_arr}")
4
```

duplicate array=[1, 2, 3, 4]

=== Code Execution Successful ===

```
1 from statistics import mean, median, mode
2
3 data = [12, 45, 83, 52]
4
5 avg_value = (mean(data) + median(data) + mode(data)) / 3
6 print(f"Output: {int(avg_value)}")
7
```

Output: 36

=== Code Execution Successful ===



```
1 arr = [1, 8, 3, 4, 0]
2 arr.sort(reverse=True)
3 print(arr)
4
5
```

```
[8, 4, 3, 1, 0]
```

```
=== Code Execution Successful ===
```

```
1 set1 = set([2, 3, 4, 5])
2 set2 = set([3, 4, 8, 6])
3
4 intersection = tuple(set1.intersection(set2))
5 print(intersection)
6
```

(3, 4)

=== Code Execution Successful ===