



National University of Modern Languages

Artificial Intelligence - LAB

Lab # 3

BSSE 5(M)

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Submitted To:

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TASK 1

Write a program to find the largest of ten numbers provided by user, using functions.

TASK 2

Create a class name `basic_calc` with following attributes and methods;

- Two integers (values are passed with instance creation)
- Different methods such as addition, subtraction, division, multiplication

TASK 1

Code:

```
a = 0

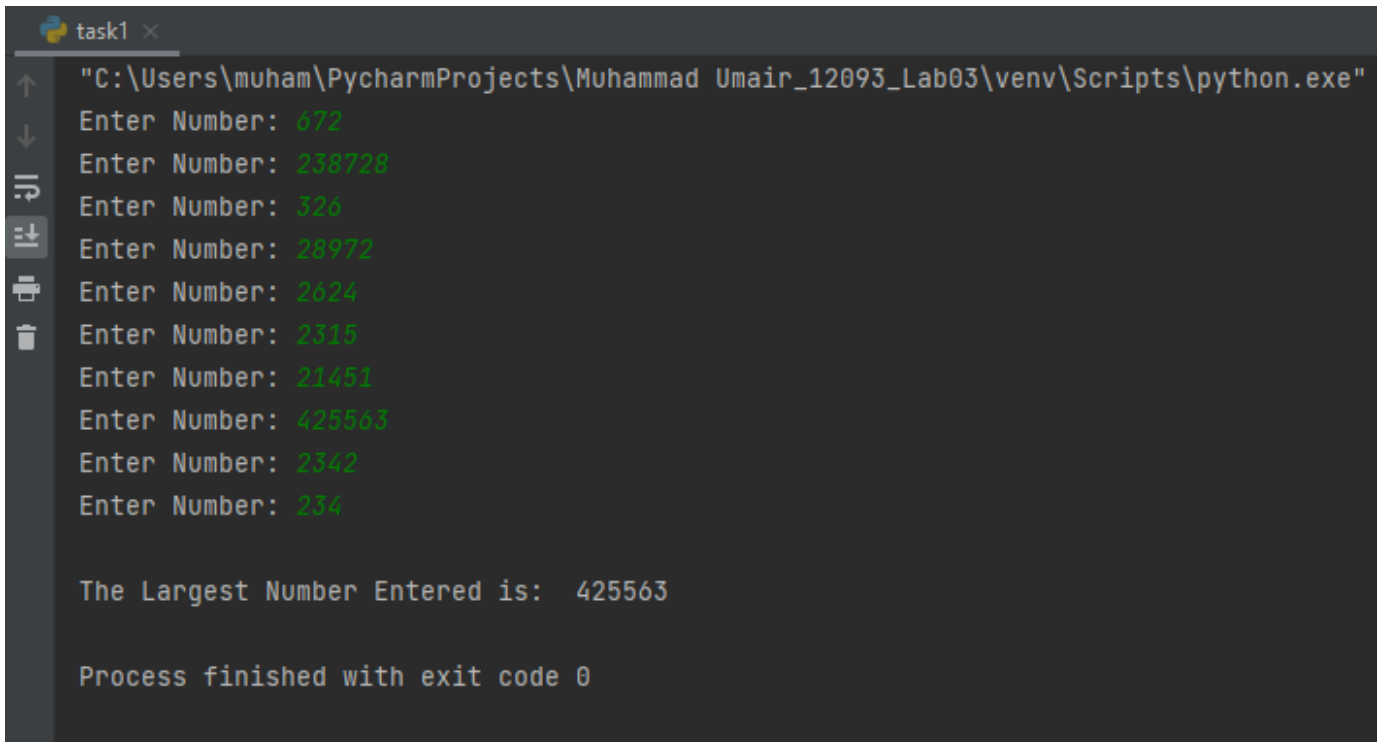
def maximum(a, num) -> int:
    if num > a:
        a = num

    return a

for i in range(10):
    num = int(input("Enter Number: "))
    a = int(maximum(a, num))

print("\nThe Largest Number Entered is: ", a)
```

Output:



```
task1 x
"C:\Users\muham\PycharmProjects\Muhammad Umair_12093_Lab03\venv\Scripts\python.exe"
Enter Number: 672
Enter Number: 238728
Enter Number: 326
Enter Number: 28972
Enter Number: 2624
Enter Number: 2315
Enter Number: 21451
Enter Number: 425563
Enter Number: 2342
Enter Number: 234

The Largest Number Entered is: 425563

Process finished with exit code 0
```

TASK 2

Code:

```
class basic_calc:
    def __init__(self, num1, num2) -> object:
        self.num1 = num1
        self.num2 = num2
        print("You entered numbers:", self.num1, "and", self.num2)

    def sum(self):
        sum = self.num1 + self.num2
        print("Sum is:", sum)

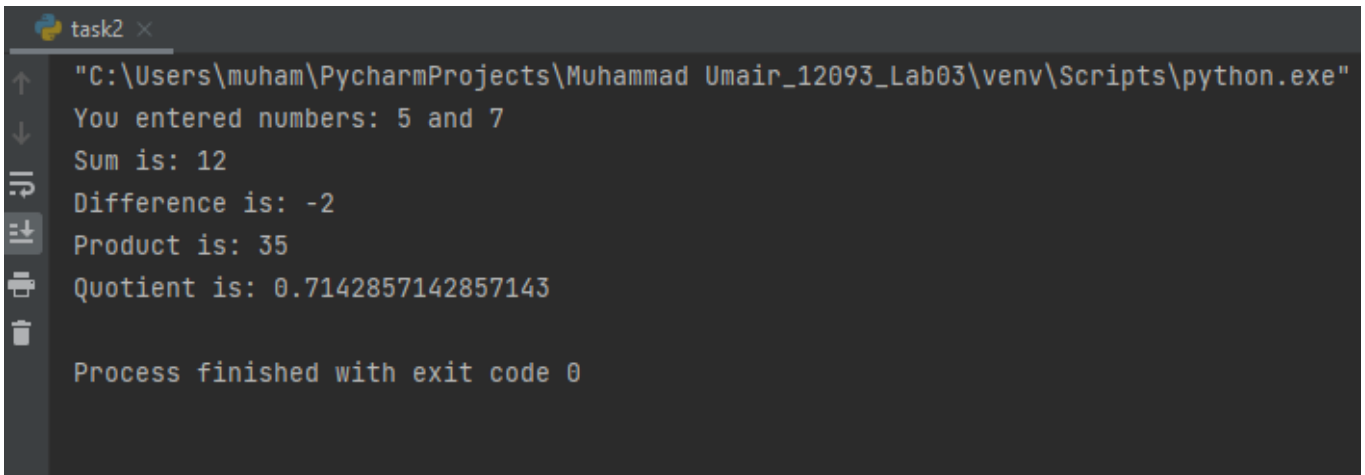
    def sub(self):
        sub = self.num1 - self.num2
        print("Difference is:", sub)

    def div(self):
        div = self.num1 / self.num2
        print("Quotient is:", div)

    def mult(self):
        mult = self.num1 * self.num2
        print("Product is:", mult)

obj = basic_calc(5, 7)
obj.sum()
obj.sub()
obj.mult()
obj.div()
```

Output:



```
task2 x
"C:\Users\muham\PycharmProjects\Muhammad Umair_12093_Lab03\venv\Scripts\python.exe"
You entered numbers: 5 and 7
Sum is: 12
Difference is: -2
Product is: 35
Quotient is: 0.7142857142857143
Process finished with exit code 0
```