Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Spring, Year:2025), B.Sc. in CSE (Day)

Course Title: Artificial Intelligence Lab
Course Code: CSE 316 Section: 221 D7

CLP 1

Student Details

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Submission Date : 01/02/2025

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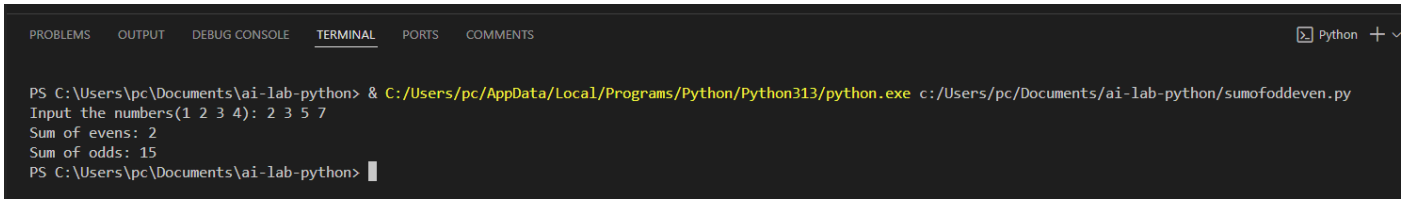
[For Teachers use only: Don't Write Anything inside this box]

Github Link: https://github.com/jiaamasum/gub-academic

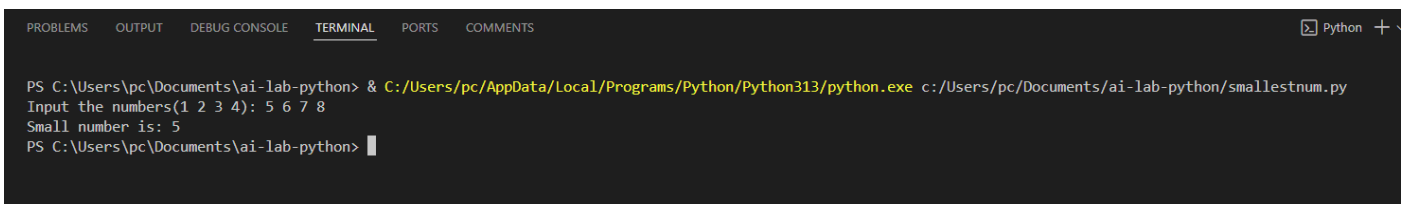
1. Sum of even and odds

```
num = list(map(int, input("Input the numbers(1 2 3 4): ").split()))

odd = 0
even = 0

for n in num:
    if n % 2 == 0:
        even += n
    else:
        odd += n

print("Sum of evens:", even)
print("Sum of odds:", odd)
```



2. Smallest Number

```
num = list(map(int, input("Input the numbers(1 2 3 4): ").split()))

small = num[0]
for n in num:
    if n < small:
        small = n

print("Small number is:", small)
```

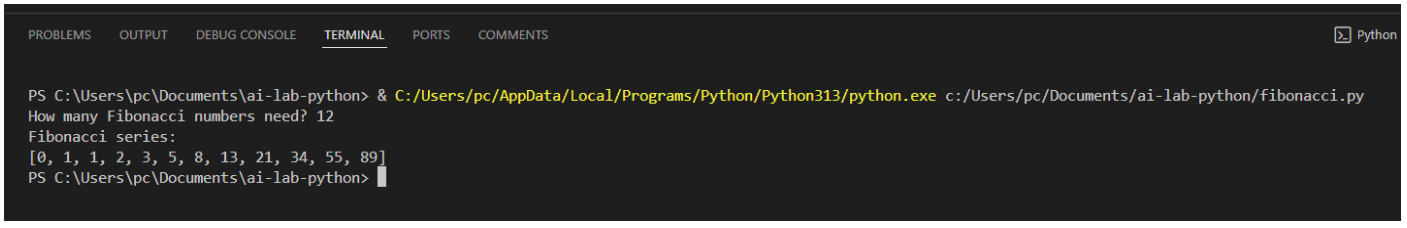


3. Factorial using for loop

```
n = int(input("Enter a non-negative integer: "))

if n < 0:
    print("Factorial can't be find for negative numbers.")
else:
    fact = 1
    for i in range(1, n + 1):
        fact *= i
    print("Factorial of", n, "is:", fact)
```

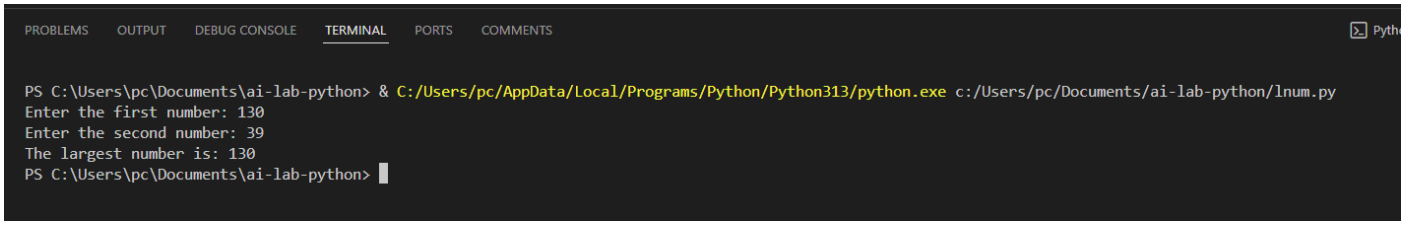
4. Number of fibonacci numbers

```
n = int(input("How many Fibonacci numbers need? "))
fib = []

a, b = 0, 1
for _ in range(n):
    fib.append(a)
    a, b = b, a + b

print("Fibonacci series:")
print(fib)
```



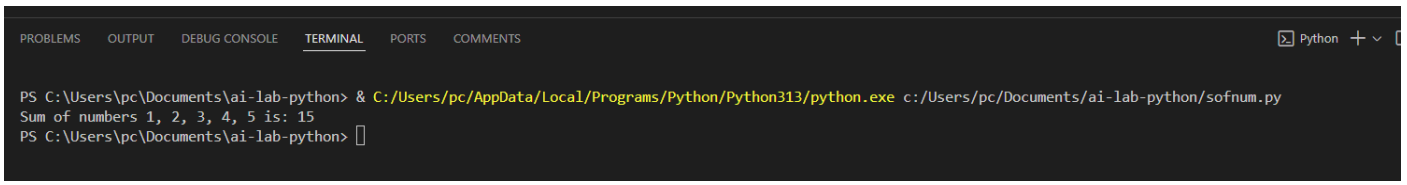
5. The largest number

```
def larg(num1, num2):
    if num1 > num2:
        return num1
    else:
        return num2

a = int(input("Enter the first number: "))
b = int(input("Enter the second number: "))

largest = larg(a, b)
print("The largest number is:", largest)
```



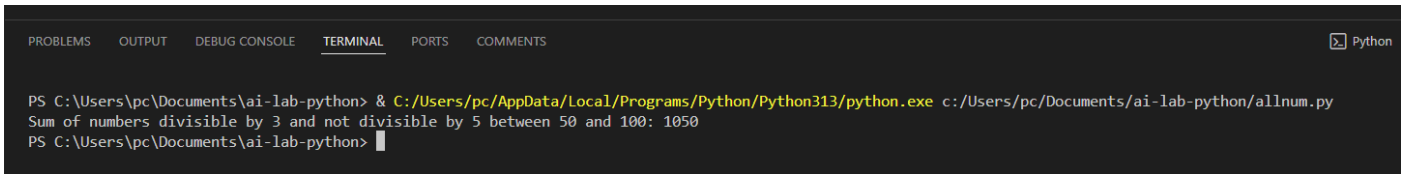
6. Sum of numbers

```
def sums(*args):
    total = 0
    for num in args:
        total += num
    return total

print("Sum of numbers 1, 2, 3, 4, 5 is:", sums(1, 2, 3, 4, 5))
```



7. Sum of numbers divisible by 3 and not divisible by 5 between 50 and 100

```
total = 0
for num in range(50, 101):
    if num % 3 == 0 and num % 5 != 0:
        total += num

print("Sum of numbers divisible by 3 and not divisible by 5 between 50 and 100:", total)
```



8. Second highest number

```
num = list(map(int, input("Input the numbers(1 2 3 4): ").split()))

un_num = list(set(num))

if len(un_num) < 2:
    print("Not enough numberrs")
else:
    un_num.sort()
    s_high = un_num[-2]
    print("The second highest number is:", s_high)
```