

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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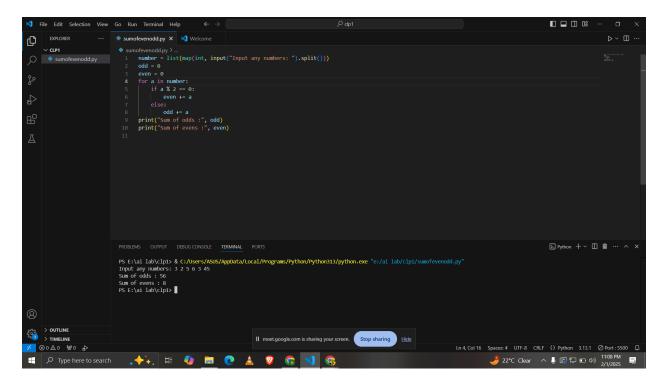
Submission Date: 01/02/2025

Course Teacher's Name: Md. Sabbir Hosen Mamun

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

1. Sum of even and odds

```
number = list(map(int, input("Input any numbers: ").split()))
odd = 0
even = 0
for a in number:
    if a % 2 == 0:
        even += a
    else:
        odd += a
print("Sum of odds :", odd)
print("Sum of evens :", even)
```

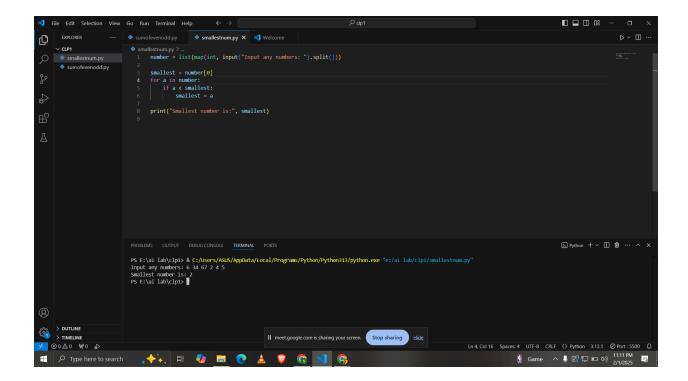


2. Smallest Number

```
number = list(map(int, input("Input any numbers: ").split()))
```

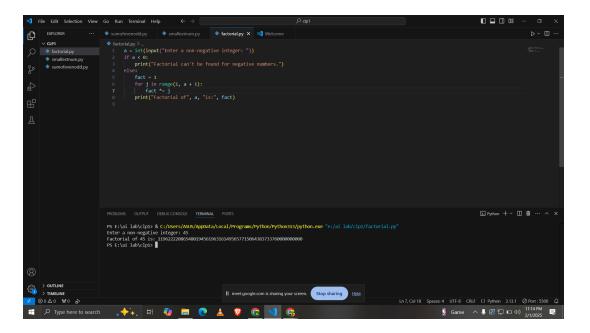
```
smallest = number[0]
for a in number:
    if a < smallest:
        smallest = a

print("Smallest number is:", smallest)</pre>
```



3. Factorial using for loop

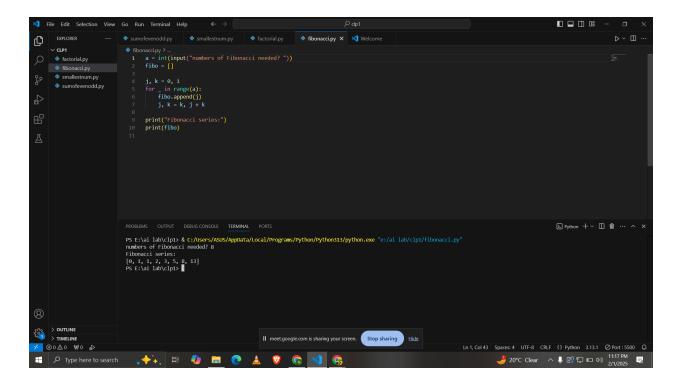
```
a = int(input("Enter a non-negative integer: "))
if a < 0:
    print("Factorial can't be found for negative numbers.")
else:
    fact = 1
    for j in range(1, a + 1):
        fact *= j
    print("Factorial of", a, "is:", fact)</pre>
```



4. Number of fibonacci numbers

```
a = int(input("numbers of Fibonacci needed?")) fibo = [] j, k = 0, 1 for _ in \ range(a): fibo.append(j) j, k = k, j + k
```

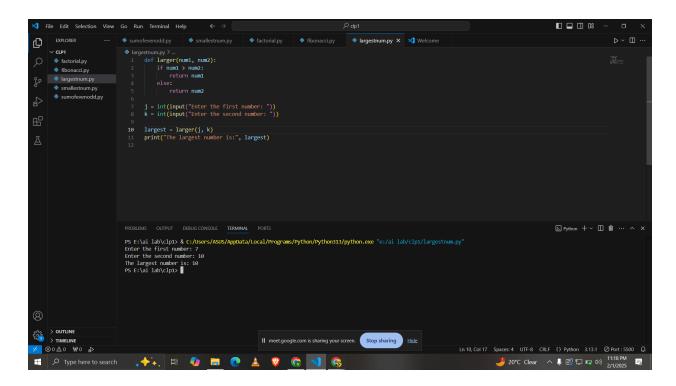
print("Fibonacci series:")
print(fibo)



5. The largest number

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

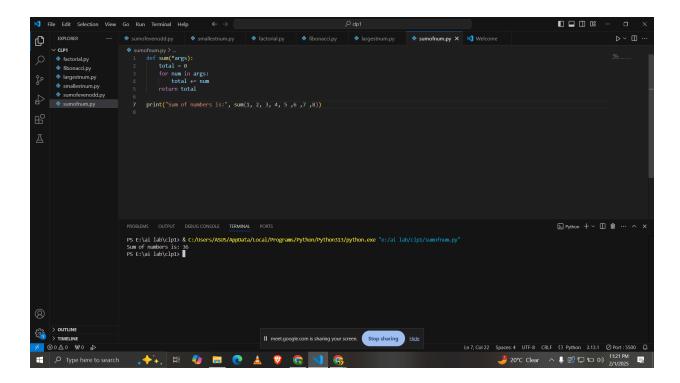
j = int(input("Enter the first number: "))
k = int(input("Enter the second number: "))
largest = larger(j, k)
print("The largest number is:", largest)
```



6. Sum of numbers

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

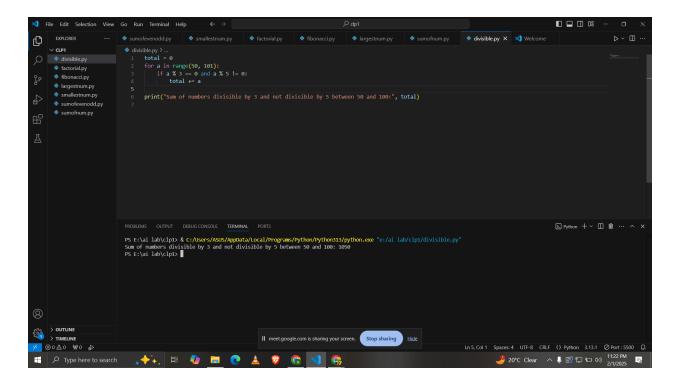
print("Sum of numbers is:", sum(1, 2, 3, 4, 5, 6, 7, 8))
```



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

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

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 numbers: ").split()))
se_num = list(set(num))

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

