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

Name	ID
Nabil Kowsar Orbe	221002118

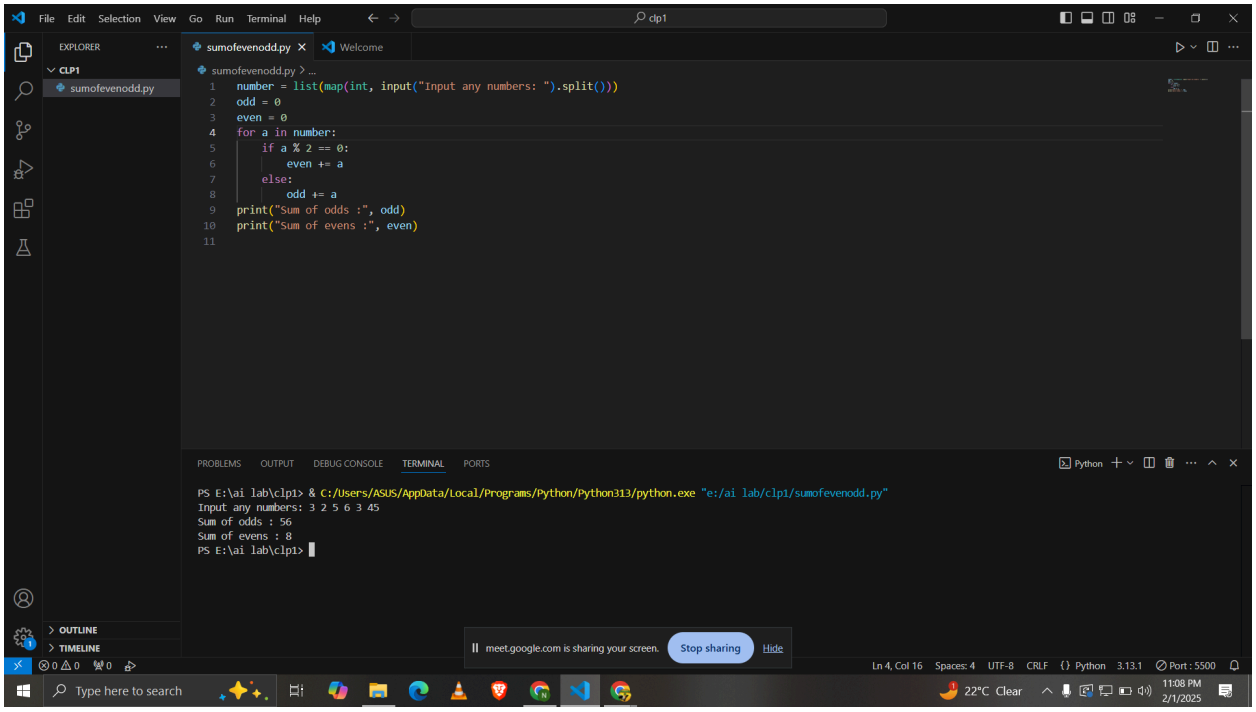
Submission Date : 01/02/2025

Course Teacher's Name : Md. Sabbir Hosen Mamun

Github Link: https://github.com/nabilnko/aiclp1

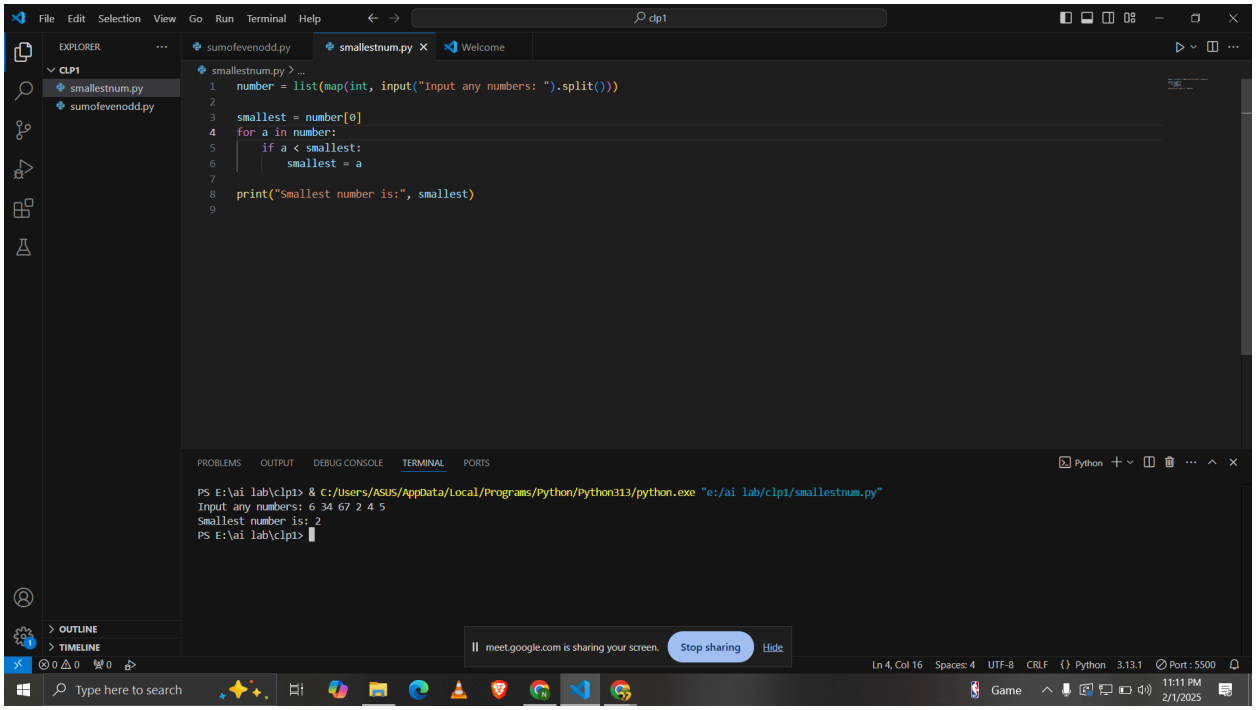
1. Even and odds SUM

```
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)
```



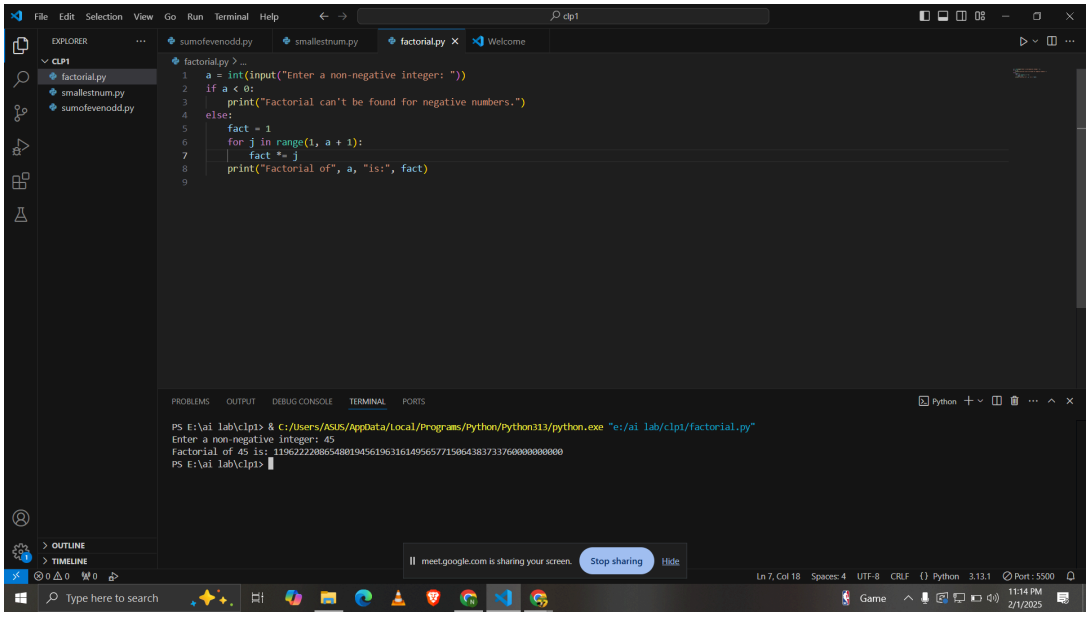
2. Small Number

```
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)
```



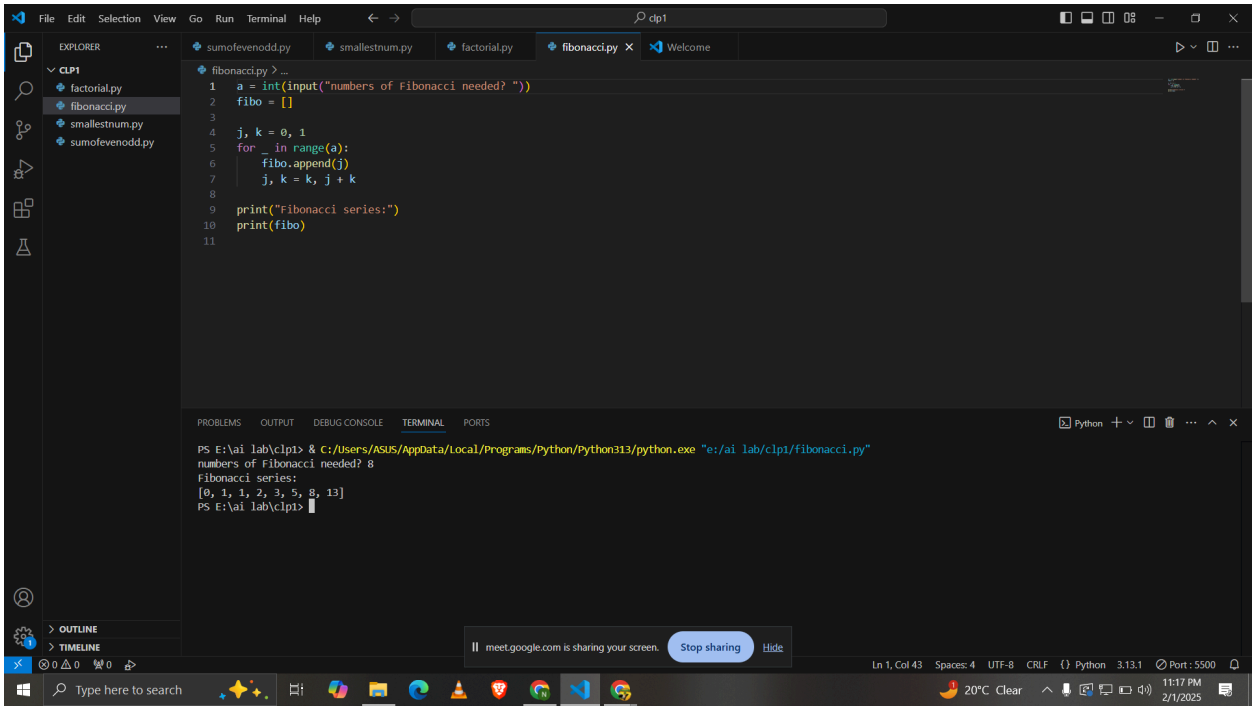
3. Factorial with for loop

```
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)
```



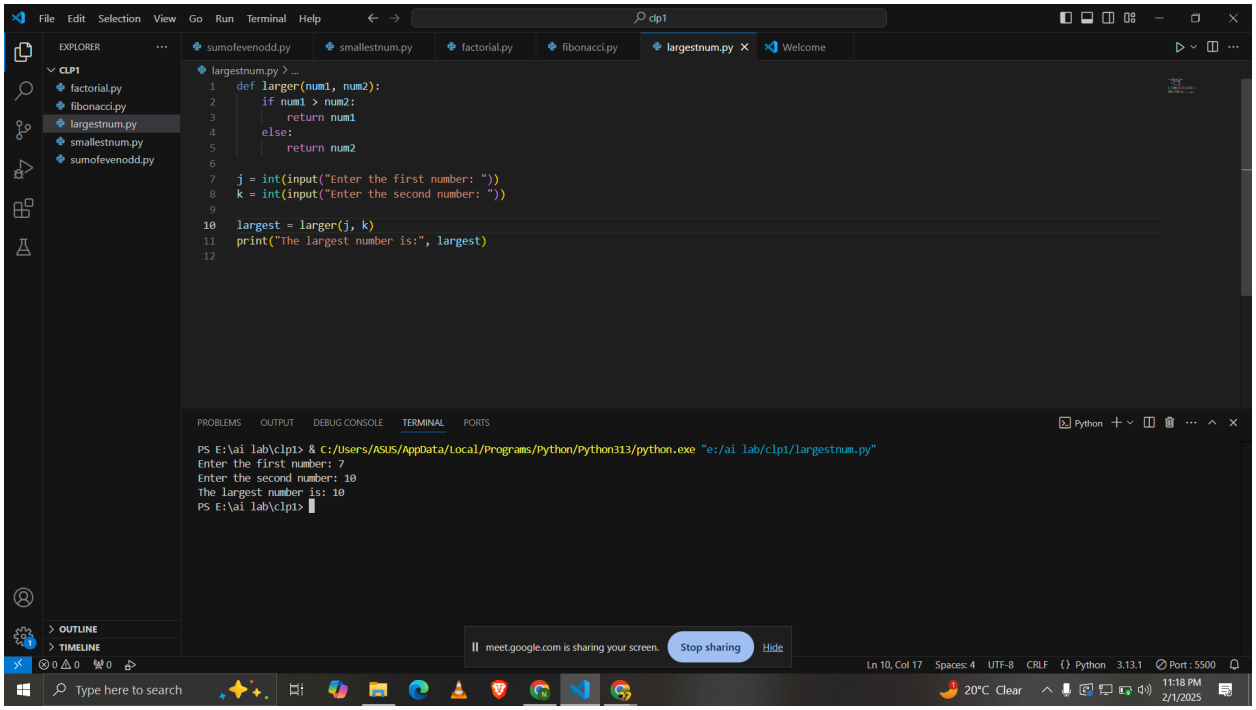
4. Fibonacci numbers

```
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)
```



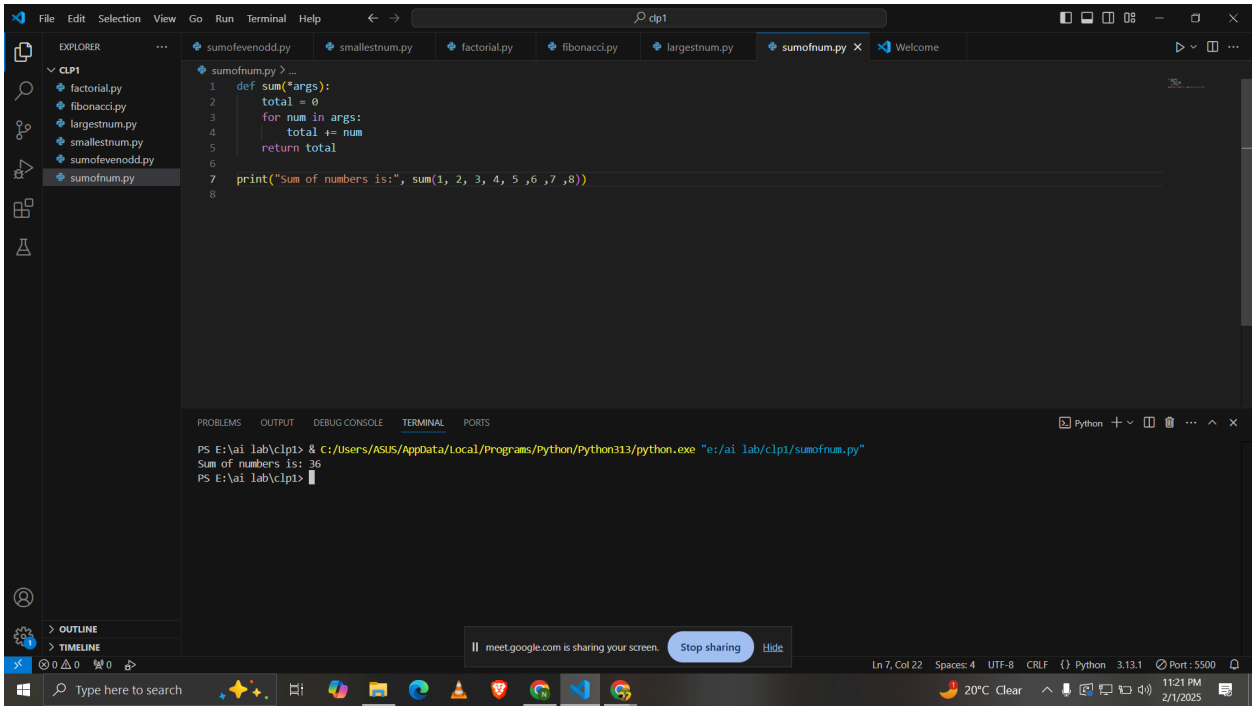
5. Largest Number

```
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)
```



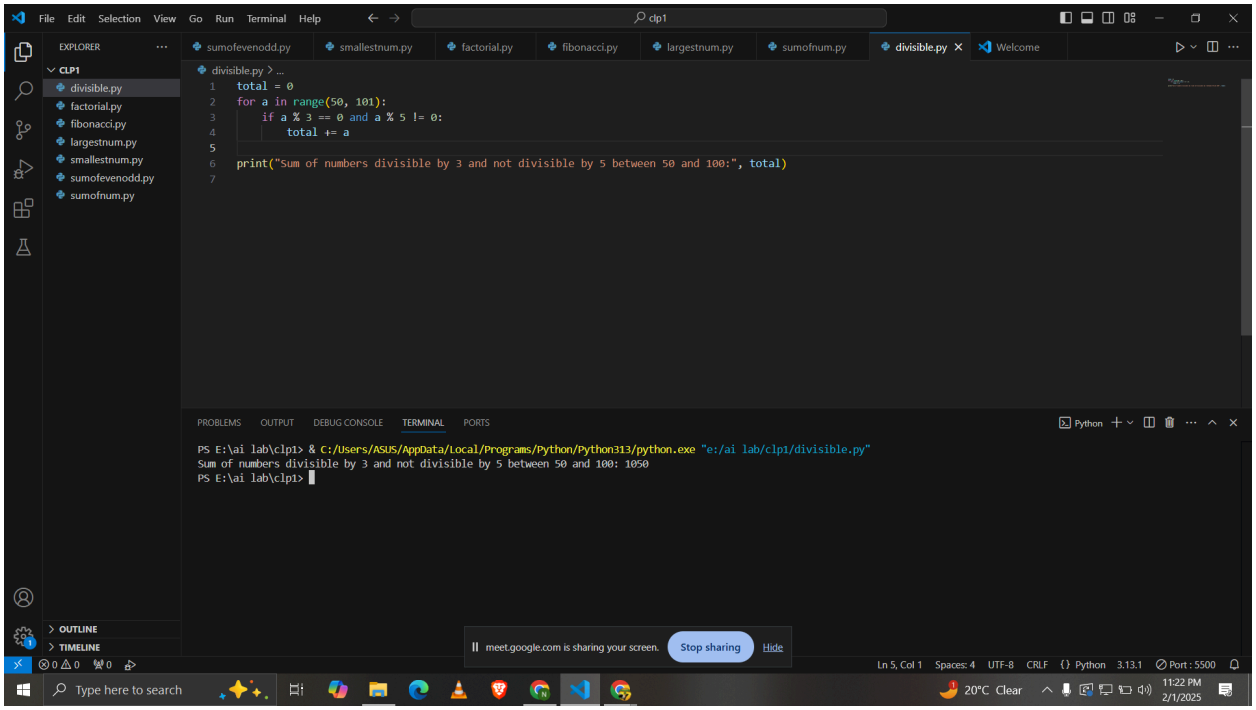
6. Sum of Numbers

```
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))
```



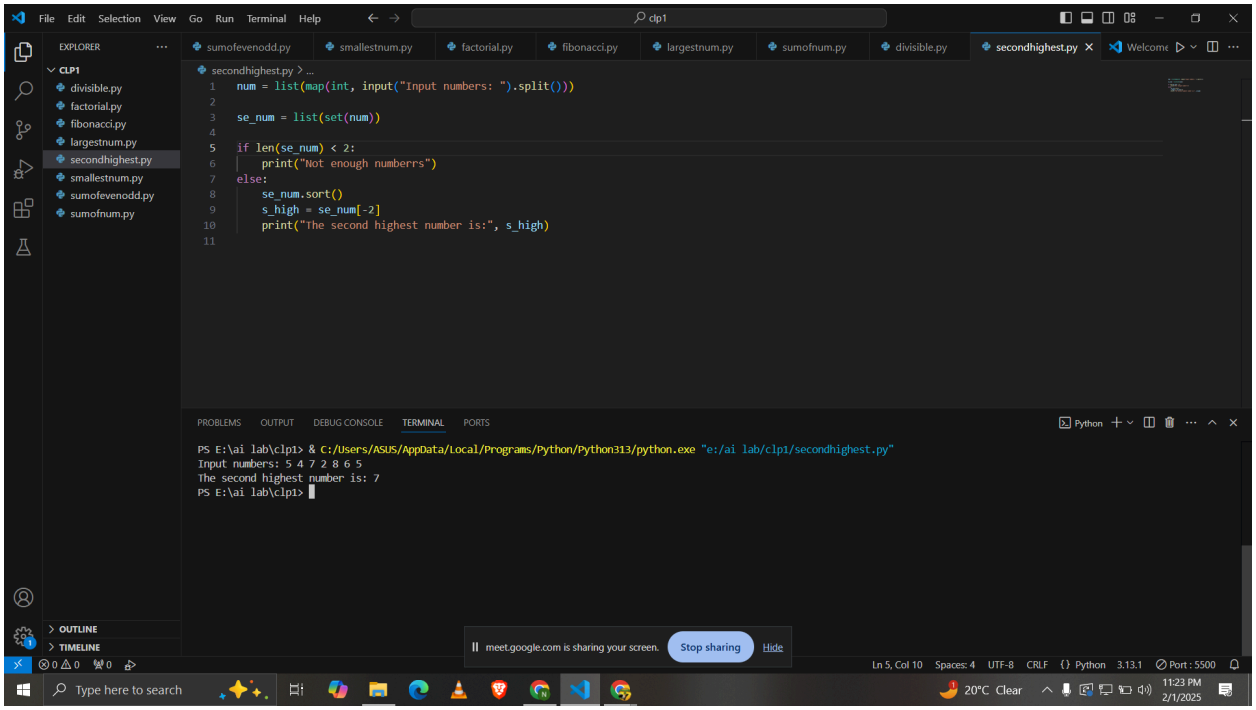
7. Sum of numbers divisible by 3 and not divisible by 5 between 50 and 100

```
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)
```


File Edit Selection View Go Run Terminal Help
clp1
EXPLORER
CLP1
divisible.py
factorial.py
fibonacci.py
largestnum.py
secondhighest.py
smallestnum.py
sumofevenodd.py
sumofnum.py
sumofevenodd.py
smallestnum.py
factorial.py
fibonacci.py
largestnum.py
sumofnum.py
divisible.py
secondhighest.py
Welcome
secondhighest.py > ...
1 num = list(map(int, input("Input numbers: ").split()))
2
3 se_num = list(set(num))
4
5 if len(se_num) < 2:
6 print("Not enough numberrs")
7 else:
8 se_num.sort()
9 s_high = se_num[-2]
10 print("The second highest number is:", s_high)
11
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python
PS E:\ai lab\clp1> & C:/Users/ASUS/AppData/Local/Programs/Python/Python313/python.exe "e:/ai lab/clp1/secondhighest.py"
Input numbers: 5 4 7 2 8 6 5
The second highest number is: 7
PS E:\ai lab\clp1>
OUTLINE
TIMELINE
meet.google.com is sharing your screen.
Stop sharing
Hide
Ln 5, Col 10 Spaces: 4 UTF-8 CRLF {} Python 3.13.1 Port : 5500
Type here to search
20°C Clear
11:23 PM
2/1/2025