



**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)**

**Lab Task : 02**  
**Course Title: Data Mining Lab**  
**Course Code: CSE 436                      Section: D3**

**Student Details**

| Name |                    | ID        |
|------|--------------------|-----------|
| 1.   | Md. Shakil Hossain | 213002042 |

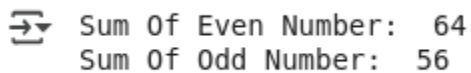
### **3.1.2 Lab Task:**

**Problem 1:** Write a python program to find the sum of odd and even numbers from a set of numbers.

Code:

```
add_odd = 0
add_even = 0
for i in {1, 3, 8, 47, 5, 56}:
    if i%2==0:
        add_even=add_even+i
    else:
        add_odd=add_odd+i
print("Sum Of Even Number: ", add_even)
print("Sum Of Odd Number: ", add_odd)
```

### **Output:**



```
➞ Sum Of Even Number: 64
Sum Of Odd Number: 56
```

**Problem 3:** Write a python program to find the sum of all numbers between 50 and 100, which are divisible by 3 and not divisible by 5.

Code:

```
sum = 0
for i in range(50, 100):
    if i%3==0 and i%5!=0:
        sum=sum+i
print("the sum of all numbers between 50 and 100, which are divisible by 3 and not divisible by 5: ",sum)
```

## **Output:**

 the sum of all numbers between 50 and 100, which are divisible by 3 and not divisible by 5: 1050

**Problem 4:** Write a python program to find the second highest number from a set of numbers.


Code:

```
num_list = {1, 3, 8, 47, 5, 56}
highest = float('-inf')
second_height = float('-inf')

for num in num_list:
    if num > highest:
        second_height = highest
        highest = num
    elif num > second_height and num != highest:
        second_height = num

print("The second Height: ", second_height)
```

## **Output:**

 The second Height: 47


**Problem 5:** Write a python program to find the factorial of a number using for loop.

Code:

```
factorial = 1
for i in range(1, 6):
```

```
factorial = factorial*i
print("Factorial", factorial)
```

## **Output:**

 Factorial 120


**Problem 6:** Write a python program to generate Fibonacci series.

Code:

```
fibonacci_series = {}
for i in range(0, 8):
    if i <= 1:
        fibonacci_series[i] = i
    else:
        fibonacci_series[i] = fibonacci_series[i-1] + fibonacci_series[i-2]

print("Fibonacci Series: \n")
for i in fibonacci_series:
    print(fibonacci_series[i])
```

## **Output:**

 Fibonacci Series:

```
0
1
1
2
3
5
8
13
```

### 3.1.5 Lab Task:

**Problem 3:** Write a python program to find the sum of all numbers between 50 and 100, which are divisible by 3 and not divisible by 5.

Code:

```
sum =0
for i in range(50, 100):
    if i%3==0 and i%5!=0:
        sum=sum+i
print("the sum of all numbers between 50 and 100, which are divisible by
3 and not divisible by 5: ",sum)
```

### Output:


 the sum of all numbers between 50 and 100, which are divisible by 3 and not divisible by 5: 1050

**Problem 3:** Write a python program to find the factorial of a number using while loop.

Code:

```
factorial = 1
i=1
while i <= 5:
    factorial = factorial*i
    i=i+1
print("Factorial", factorial)
```

### Output:

 Factorial 120

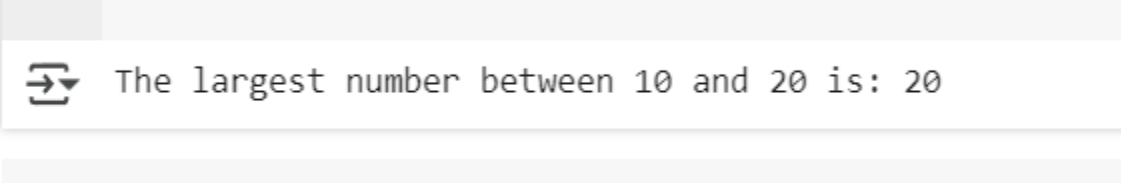
## 4.2 Lab Task:

**Problem 1:** Write a python program to find the largest number between two numbers using function

Code:

```
def find_largest(a, b):  
    if a > b:  
        return a  
    else:  
        return b  
  
# Example usage:  
num1 = 10  
num2 = 20  
print(f"The largest number between {num1} and {num2} is:  
{find_largest(num1, num2)}")
```

### Output:



```
⇒ The largest number between 10 and 20 is: 20
```

**Problem 2:** Write a python program to find the sum of the numbers passed as parameters.

Code:

```
def sum_numbers(*args):  
    return sum(args)  
  
print(f"The sum of the numbers 1, 2, 3, and 4 is: {sum_numbers(1, 2, 3, 4)}")
```

### Output:



The sum of the numbers 1, 2, 3, and 4 is: 10

### 5.4.3 Lab Task:

**Problem 2:** Write a Python function `studentId()` which will print the id of a student (`studentId`). If the user passes an argument `studentId` or `studentId` the function will print the student name and class.

Code:

```
def studentId(student_id=None, student_name=None, student_class=None):
    if student_id is not None and student_name is not None and student_class
    is not None:
        print(f"Student Name: {student_name}, Student Class:
{student_class}")
    else:
        print(f"Student ID: {student_id}")

studentId(student_id=101)

studentId(student_id=101, student_name="John Doe", student_class="10th")
```

### Output:



Student ID: 101  
Student Name: John Doe, Student Class: 10th

