

Experiment 2:

Part 1:

```
# Branch: Computer
# Year: 2025
# Sem: 4
# Name: Mohd Qayam
# UIN: 231P038
# Roll No.: 02
```

```
print("*****")
print("Sum of numbers")
print("Mohd Qayam")
print("*****")
```

```
def sum(n):
    if n == 0:
        return 0
    else:
        return n + sum(n-1)
```

```
n = int(input("Enter a number: "))
print("Sum of numbers from 0 to", n, "is", sum(n))
```

Part 2:

```
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# Roll No.: 02
```

```
print("*****")
print("Present or Absent")
print("Mohd Qayam")
print("*****")
```

```
def present_or_absent(roll_number):
    if roll_number in present:
        return "Present"
    else:
        return "Absent"
```

```
present = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
roll_number = int(input("Enter roll number: "))
print("Roll number", roll_number, "is", present_or_absent(roll_number))
```

Part 3:

# AIM: Write a program in python to find largest between three number using functions.

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```
print("*****")
print("Largest Number")
print("Mohd Qayam")
print("*****")
```

```
def largest(a,b,c):
    if a>b and a>c:
        return a
    elif b>a and b>c:
        return b
    else:
        return c
```

```
a = int(input("Enter 1st number: "))
b = int(input("Enter 2nd number: "))
c = int(input("Enter 3rd number: "))
print("Largest number is", largest(a,b,c))
```

Part 4:

# AIM: Write a program in python to implement Bubble sort using functions.

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# Year: 2025

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# Roll No.: 02

```
print("*****")
print("Bubble Sort")
print("Mohd Qayam")
print("*****")
```

```
def bubbleSort(arr):
    n = len(arr)
    for i in range(n):
        for j in range(0, n - i - 1):
            if arr[j] > arr[j + 1]:
                arr[j], arr[j + 1] = arr[j + 1], arr[j]
```

```
return arr
```

```
arr = [64, 34, 25, 12, 22, 11, 90]  
print("Unsorted Array: ", arr)  
print("Sorted Array: ", bubbleSort(arr))
```

```
*****  
Enter a number: 10  
Sum of numbers from 0 to 10 is 55  
*****  
Enter roll number: 33  
Roll number 33 is Absent  
*****
```

```
*****  
Enter 1st number: 10  
Enter 2nd number: 20  
Enter 3rd number: 30  
Largest number is 30  
*****
```

```
*****  
Unsorted Array: [64, 34, 25, 12, 22, 11, 90]  
Sorted Array: [11, 12, 22, 25, 34, 64, 90]  
*****
```