

Assignment - 4

Exercise-1

```
Students = ['Jay','Aslam','Suni','Hari']  
print(f"The length of the list:{len(Students)}")  
"""The len() function is used to return the number of items (length)  
in an object, such as a string, list, tuple,  
dictionary, or other iterable objects."""
```

Output:

```
The length of the list:4  
  
Process finished with exit code 0
```

Exercise-2

```
Name1 = input("Enter your name:")  
print(f"Hello!,{Name1}")
```

Output:

```
Enter your name:Jay  
"Hello!,Jay"  
  
Process finished with exit code 0
```

Exercise-3

```
def find_maximum(numbers):  
    if not numbers:  
        return None  
    max_value=numbers[0]  
    for num in numbers:  
        if num>max_value:  
            max_value=num  
    return max_value  
  
numbers = [1,2,3,4,5,6,7,8,9]  
max_num = find_maximum(numbers)  
print(f"The max.number is :{max_num}")
```

Output:

```
The max.number is :9  
  
Process finished with exit code 0
```

Exercise-4

```
x = 10 # Global variable
def my_function():
    x = 5 #local variable
    print("Local x inside the function:", x)
my_function()
print("Global x outside the function:", x)
"""Here when we call the function (my_function) it reads the x (x=5) inside the block,
not the global variable x."""
```

Output:

```
Local x inside the function: 5
Global x outside the function: 10

Process finished with exit code 0
```

Exercise-5

```
def calculate_area(length, width=5):
    area = length * width
    return area

area1= calculate_area(5,2)
print(f"Area with length:5 and width:2 : {area1}")

area2 = calculate_area(3)
print(f"Area with length:3 :{area2}")
```

Output:

```
Area with length:5 and width:2 : 10
Area with length:3 :15

Process finished with exit code 0
```