# Week 9: FUNCTION IN PYTHON

**Part A:** Function

F**unction with variable**

1.       Write a program using function with parameters that accepts three arguments and print the values.

**Return multiple values from a function**

2.       Write a program to create function calc() that will accept two variables and calculate the two variables. Hint: Use addition and subtraction.

**Complete the given code below:**

def calc(x, y):  
 # Write the missing Code  
  
result = calc(40, 10)  
print(result)

**Function with a default argument**

1. Write a program to create a function named employee() using the following conditions:
2. Program should accept the employee’s name and salary and display both.
3. If the salary is missing in the function call, then assign default value 9000 to salary.

**Inner function to calculate the addition**

1. Write a Python program to create the following:
   1. Create an outer function that will accept two parameters, y and z.
   2. Create an inner function inside that will calculate the addition of y and z.
   3. Lastly, the outer function will add 5 into addition and return it

**Built-in Function**

1. Generate a Python list of all the odd numbers between 2 to 50.
2. Find and print the largest number from the given list [4, 28, 97, 56, 16].

**Part B:**

1. Write the following program to find sum of two numbers using a function.

**Sample input/output:**

Enter first number: 23

Enter second number: 7

Sum of the given two numbers is: 30

1. Write a Python program to read name of student, TP Number and enter his/her all subject marks in list. Compute the total and percentage (Average) of a student. At the end display Name of student, TP Number, Total, Percentage and Grade of that semester by **using function as defined below**.

|  |  |
| --- | --- |
| Score | Grade |
| 80-100 | A+ |
| 75-79 | A |
| 70-74 | B+ |
| 65-69 | B |
| 60-64 | C+ |
| 55-59 | C |
| 50-54 | C- |
| 40-49 | D |
| 0-39 | F |

1. Use **Display function** to print output.
2. Use **mark function** to accept parameter and return total to Display function.
3. Use **average function** by passing parameter which is generated in mark function.
4. Use **grade function** by passing parameter which is generated in average function.