LAB 6: FUNCTION IN PYTHON

Part A: Function

Function with variable

1. Write a program that accepts a variable length of arguments and print the value. Hint: use function

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

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

Inner function to calculate the addition

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

Assign a different name to function and call the function using the new name.

5. Based on the example given, assign a new name to the function and call it using the new name.

```
def student(name, age):
    print(name, age)

student("Kelvin", 26)
```

Built-in Function

6. Generate a Python list of all the even numbers between 2 to 50.
7. Find the largest number from the given list [4, 28, 97, 56, 16].

Part B: Test yourself!

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

2. 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

a) Use **Display function** to print output.
b) Use **mark function** to accept parameter and return total to Display function.
c) Use **average function** by passing parameter which is generated in mark function.
d) Use **grade function** by passing parameter which is generated in average function.