PFP - Labwork 02

Q1 (2.5 marks). Write a program that performs the following tasks:

1. Create a function with variable length of arguments

Function call:

```
# call function with 3 arguments
func1(20, 40, 60)

# call function with 2 arguments
func1(80, 100)
```

Expected Output:

```
Printing values
20
40
60


Printing values
80
100
```

2. Return multiple values from a function

Given:

```
def calculation(a, b):
    # Your Code

res = calculation(40, 10)
print(res)
```

Expected Output

```
50, 30
```

Q2 (2.5 marks). Write a program to accept 2 integer numbers m and n, then:

1. Create a function with default argument

Given:

```
showEmployee("Ben", 12000)
showEmployee("Jessa")
```

Expected output:

```
Name: Ben salary: 12000
Name: Jessa salary: 9000
```

2. Create an inner function to calculate the addition in the following way

   - Create an outer function that will accept two parameters, a and b
   - Create an inner function inside an outer function that will calculate the addition of a and b
   - At last, an outer function will add 5 into addition and return it

```
result = outer_fun(5, 10)
print(result)
```

Q3 (2.5 marks). Write a program (using functions) to accept 2 integer numbers m and n, then:

1. Display all common prime dividers of them.
2. Find the greatest common divider (GCD) of them.
3. Find the least common multiple (LCM) of them.

Q4 (2.5 marks). Write a program (using functions) that performs the following tasks:

1. Input an integer number n (check input validation), then
2. Display n in binary number format.
3. Re-input n (not check input validation). Calculate the sum of all digits of n.
4. Find the number m, which is the reverse of n.