

Lab task 2.

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Program: BSSE

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Subject: Object Oriented Programming CC120

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QUESTION NO 1:

Write a function hello_name that takes a name as an argument and prints "Hello, !".

INPUT:

```
1 def hello_name (name):
2 print(f"Hello, {name}!")
3 hello_name("hamza")
4
```

```
PS E:\universty projects\python> &
Hello, hamza!
PS E:\universty projects\python>
```

QUESTION NO 2:

Write a function calculate_area that takes length and width as arguments and returns the area of a rectangle. The width should have a default value of 10.

INPUT:

```
1 def calculate_area(length,width=10):
2 return length * width
3 print (calculate_area(length= 3))
```

```
PS E:\universty projects\python> & "C:
30
PS E:\universty projects\python>
```

QUESTION NO 3:

Write a function is_even that returns True if a given number is even and False otherwise.

INPUT:

```
def is_even():
    num_1 = int(input("Enter a number: "))
    if num_1 % 2 == 0:
        return True
    else:
        return False
    print(is_even())
```

```
PS E:\universty projects\python> & "C:/Us
Enter a number: 2
True
PS E:\universty projects\nython>
```

QUESTION NO 4:

Create a function that modifies a global variable inside a function using the global keyword.

INPUT:

```
1  x = 10
2  def my_function():
3     global x
4     x = 20
5
6  print("Before modification:", x)
7
8  my_function()
9
10  print("After modification:", x)
```

```
Before modification: 10
After modification: 20
PS E:\universty projects\python>
```