



Lab task 2.

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Program: BSSE

Semester/Section: 2st - C

Subject: Object Oriented Programming CC120

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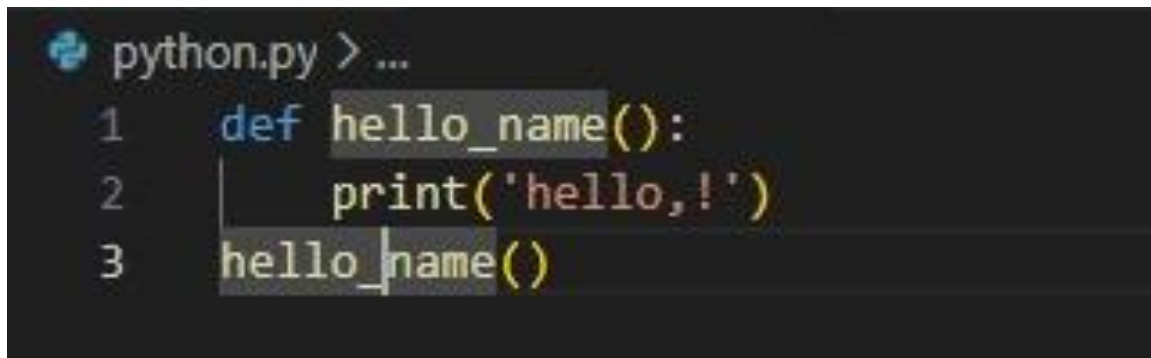
Submitted To: Mr. Jamal Abdul Ahad

Department of Computer Science

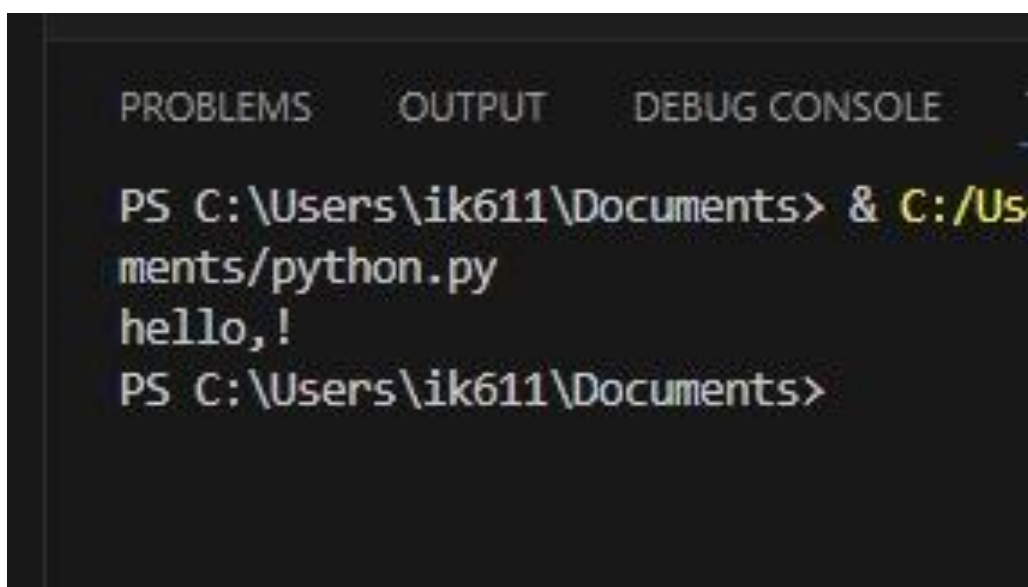
Abbottabad University of Science and technology

QUESTION NO 1:

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

INPUT:

```
python.py > ...  
1  def hello_name():  
2      print('hello,!')  
3  hello_name()
```

OUTPUT:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  
  
PS C:\Users\ik611\Documents> & C:/Users/ik611/AppData/Local/Programs/Python/Python39-64/python.py  
hello,!  
PS C:\Users\ik611\Documents>
```

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 area1 = calculate_area(5)  
4 print(area1)
```

OUTPUT:

```
PS C:\Users\ik611> & C:/Users/ik611/AppData  
2 ex 2.py"  
50
```

QUESTION NO 3:

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

INPUT:

```
Users\ik611> code.py ...  
1  def is_even(number):  
2      return number % 2 == 0  
3  print(is_even(4))  
4  print(is_even(7))
```

OUTPUT:

```
PS C:\Users\ik611> & C:/U  
True  
False  
PS C:\Users\ik611>
```

QUESTION NO 4:

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

INPUT:

```
1 my_variable = 10
2 def modify_global():
3     global my_variable
4     my_variable = 20
5 print("Before:", my_variable)
6 modify_global()
7 print("After:", my_variable)
```

OUTPUT:

```
on.py
Before: 10
After: 20
PS C:\Users\ik611>
```