Homework

 Task 1 .

Read the Python program below:

|  |  |
| --- | --- |
| 12345 | num1 = int(input())num2 = 10 + num1 \* 2print(num2)num1 = 20print(num1) |

**Question 1**

When this program is executed, if the user types 10 on the keyboard, what will be displayed on the screen as a result of executing **line 3**?

* 1. 30
	2. 40
	3. 10 + 10 \* 2
	4. 10 + num1 \* 2

**Question 2**

When this program is executed, if the user types 10 on the keyboard, what will be displayed on the screen as a result of executing **line 5**?

* 1. 10
	2. 20
	3. 10 and 20
	4. There is an error in the program because a variable cannot hold two values at the same time

 Task 2 .

**Rearrange** the lines in the Python program below, so that you have a runnable program that holds a meaningful interaction with the user.

|  |  |
| --- | --- |
| 12345 | print("And where do you live", name)print("I’ve never been to", location)name = input()print("What is your name?")location = input() |

Write your rearranged program below:

|  |  |
| --- | --- |
|  |  |

 Task 3 .

The **incomplete** program below is supposed to prompt the user for a distance in miles, and convert the distance that the user enters to kilometres.

|  |  |
| --- | --- |
| 1234 | print("Enter a distance in miles:")miles = .kilometres = .print(miles, "miles is", kilometres, "km")  |

**Step 1**

**Complete** line 2 so that the value assigned to the miles variable is obtained from what the user types on the keyboard.

**Step 2**

**Complete** line 3 so that the program calculates the value of the kilometres variable to be the equivalent of the miles variable, converted to kilometres. Note that 1 mile is equal to 1.60934 kilometres.

Resources are updated regularly — the latest version is available at: [ncce.io/tcc](http://ncce.io/tcc).

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