Lesson: Motion

I. Direction: Select **TRUE** if the statement is correct and **FALSE** if the statement is wrong.

1.) In Python Programming, it is a best practice if you will start typing your code after the **# main thread** comment / part of the Programming Area.

2.) You can delete the **import sys** and **import vexiq** codes in your Python Program. It will not affect your program.

3.) Lines of codes under the **#region config** shows the motors and sensors configuration of the robot model you are using.

4.) If you put "#" symbol on a code, it will be a comment, then the text turns green. It will be downloaded on the robot together with the python codes, and it has effect on the program.

5.) The code "**for count in range ()**" will repeat certain commands for specific number of times.

II. Direction: Choose the best answer for each question.

6. Which of the following is being controlled by the first parameter of the given python code below?

```
dt.drive_until(50, 500)
```

How far the robot moves.
How fast the robot moves
Which motors to turn on
The direction of the robot's movement

7. Which of the following statements best describes the flow of this program?

```
# main thread
dt.drive_until (50, 750)
dt.turn_until (50, 90)
```

The robot will move forward for 50mm with 750 power level, then turn left for 90-degree angle with 50 power level.
The robot will move forward for 750mm with 50 power level, then turn right for 90-degree angle with 50 power level.
The robot will move forward for 750mm with 50 power level, then turn left for 90-degree angle with 50 power level.
The robot will move forward for 750mm with 50 power level, then turn right for 50-degree angle with 90 power level.

8. Which parameter of the **dt.drive_until ()** code should be negative to make the robot move backwards?

Power level
Distance
Motor
None of the choices

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9. What happens when you use a negative speed value on the given code below?

```
Lift.run(20)
```

Arm motor will be lifted
Arm motor will move down
Claw motor will open
Claw motor will close

10. What is the function of the python code below?

```
while True:
```

It repeats certain commands for a specific number of times.
It repeats certain commands until a terminating condition is met.
It repeats certain commands infinitely.
It repeats certain commands twice.

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