RoboLocode

***Robot Factory  
Programming basics***

# IDENTIFICATION

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| **ENGINEER IN CHARGE** | |
| **NAME** |  |
| DATE OF **INSPECTION** |  |

# PROCEDURE

If you want to become an engineer in the Robot Factory you must learn the programming language that the robots use- python. In order to do that you have to start with the basics, function by function you will succeed in designing a robot that will perform really well.

So, let’s start with the basic functions:

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| 1. Output formating |
| Outputting some value in Python is pretty easy. In fact, you have been doing it already.  There are two types of output in Python. They are:   1. Functional Output 2. Console Output   **Functional Output**  **return** is a functional output. This means the return is used to output some value to a function.  **Console Output**  print() is a console output. It is used to display some value to the console. |

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| 1. Display |
| It’s important to display how much energy your robot has available. Write code that can display a message telling the user how much energy is available (you can choose a random value) |
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| 1. Output formating |
| In Python, you can take user's input using input() function. Inside it you can pass an argument of an instruction.  For example,  name = input("Enter your name: ")  This will ask you to enter your name and whatever you enter will be stored into the variable name. |

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| 1. Display |
| Write code that asks the user the name of his robot, and then writes back a message using that name. |
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| 1. Coding challenge |
| Assume that for each turn of race, that your robot is participating in, it loses 15% of it’s battery. With this in mind, write a program that calculates how energy will be spent according to values inputed by the user. |
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# ASSESSMENT

Please provide your feedback and evaluation of this activity.

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