**Programmer Challenge - Python**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is Programming?

* Programming is the process of creating a set of instructions. Instructions to tell a computer how to perform a task in steps. Programming can be done using a variety of computer languages.

Tools we use

* Python – Try it here: <https://www.w3schools.com/python/trypython.asp?filename=demo_default>

**Lesson 1: Print Statements** [**https://www.w3schools.com/python/python\_syntax.asp**](https://www.w3schools.com/python/python_syntax.asp)

**Challenge 1:** [**https://www.w3schools.com/python/exercise.asp?filename=exercise\_syntax1**](https://www.w3schools.com/python/exercise.asp?filename=exercise_syntax1)

**Lesson 2: Variables** [**https://www.w3schools.com/python/python\_variables.asp**](https://www.w3schools.com/python/python_variables.asp)

**Challenge 2:** [**https://www.w3schools.com/python/trypython.asp?filename=demo\_variables1**](https://www.w3schools.com/python/trypython.asp?filename=demo_variables1)

**Lesson 3: If Else** [**https://www.w3schools.com/python/python\_conditions.asp**](https://www.w3schools.com/python/python_conditions.asp)

**Challenge 3:** <https://www.w3schools.com/python/exercise.asp?filename=exercise_ifelse1>

Advanced Topics:

While Loops: <https://www.w3schools.com/python/python_while_loops.asp>

For Loops: <https://www.w3schools.com/python/python_for_loops.asp>

Functions: <https://www.w3schools.com/python/python_functions.asp>

Advanced Challenges:

While Loops: <https://www.w3schools.com/python/exercise.asp?filename=exercise_while_loops1>

For Loops: <https://www.w3schools.com/python/exercise.asp?filename=exercise_for_loops1>

Functions: <https://www.w3schools.com/python/exercise.asp?filename=exercise_functions1>

**Minecraft Themed Puzzles**

<https://studio.code.org/s/aquatic/lessons/1/levels/1>

**EXPERIENCED PROGRAMMER CHALLENGE:**

Python Quiz: <https://www.w3schools.com/quiztest/quiztest.asp?qtest=PYTHON>

**Contacts**:

If you have any questions, please don't hesitate to reach out:

Narayan, Nitya [Nitya.Narayan@bms.com](mailto:Nitya.Narayan@bms.com)

Liu, William [William.Liu@bms.com](mailto:William.Liu@bms.com)