PW SKIILS

ASSIGNMENT 2

Sure, here are the answers to your questions:

1. In Python, you can comment code using the `#` symbol for single-line comments and triple quotes `'''` or `"""` for multi-line comments.

2. Variables in Python are containers for storing data values. You can declare and assign values to variables using the syntax `variable\_name = value`.

3. You can convert one data type to another in Python using functions like `int()`, `float()`, `str()`, `list()`, etc., depending on the desired conversion.

4. To write and execute a Python script from the command line, you first create a `.py` file containing your Python code, then navigate to the directory containing the file in the command line and use the command `python filename.py` to execute the script.

5. To obtain the sub-list `[2, 3]` from the list `my\_list = [1, 2, 3, 4, 5]`, you can use slicing as follows: `sub\_list = my\_list[1:3]`.

6. In mathematics, a complex number is a number that can be expressed in the form `a + bi`, where `a` and `b` are real numbers and `i` is the imaginary unit. In Python, you can represent complex numbers using the syntax `a + bj`, where `a` and `b` are real numbers and `j` represents the imaginary unit.

7. To declare a variable named `age` and assign the value `25` to it, you can use the syntax: `age = 25`.

8. When you declare a variable named `price` and assign the value `9.99` to it, this variable belongs to the data type `float`, representing a floating-point number.

9. To create a variable named `name` and assign your full name to it as a string, you can use the syntax: `name = "Your Full Name"`. To print the value of this variable, you can use the `print()` function like this: `print(name)`.

10. To extract the substring `"World"` from the string `"Hello, World!"`, you can use string slicing like this: `substring = "Hello, World!"[7:12]`.

11. To create a variable named `is\_student` and assign it a boolean value indicating whether you are currently a student or not, you can use the syntax: `is\_student = True` or `is\_student = False`, depending on your status.