Assignment 4:

1.What is kernel?

Ans: The kernel is a computer program at the core of a computer's operating system and generally has complete control over everything in the system. It is the portion of the operating system code that is always resident in memory and facilitates interactions between hardware and software components.

2.Why we create kernel?

Ans: In broad terms, an OS kernel performs three primary jobs. It provides the interfaces needed for users and applications to interact with the computer. It launches and manages applications. It manages the underlying system hardware devices.

3.What is library in python?

Ans: A Python library is also a group of interconnected modules. It contains code bundles that can be reused in a variety of programs. It simplifies and facilitates Python programming for programmers. Because then we won't have to write the very same code for different programs.

4. What is package in python?

Ans: The Python Package Index, abbreviated as PyPI and also known as the Cheese Shop, is the official third-party software repository for Python.

5. What is difference between library and package in python?

Ans: Packages are a collection of related modules that aim to achieve a common goal. Finally, the Python standard library is a collection of packages and modules that can be used to access built-in functionality. In an ideal world, you'd import any necessary modules into your Python scripts without any issues.

6. how to create my name in python jupyter (syntax)?

Ans: To write a program that displays your name in Python  
**Using the print() function:**The simplest way to display your name in Python is to use the print() function. You can simply pass your name as an argument to the function, and it will be displayed on the console.

7. What is difference between "string" and "int" data types in python?

Ans: Strings are sequences of characters that are used for conveying textual information. Ints, or integers, are whole numbers. They are used to represent numerical data, and you can do any mathematical operation.

8. What is "syntax error: EOL error" in python?

Ans: In **Python** 3, we need both quotation marks to get a value. ... “**syntax error”. EOL error** means, “end of line”, it does not have a closing or a beginning tag.