1. ***What is kernel*** ?

A)The kernel is **a core component of an operating system and serves as the main interface between the computer's physical hardware and the processes running on it**. The kernel enables multiple applications to share hardware resources by providing access to CPU, memory, disk I/O, and networking.

2. Why we create kernel?

A)The major aim of kernel is **to manage communication between software i.e. user-level applications and hardware i.e., CPU and disk memory**. Objectives of Kernel : To establish communication between user level application and hardware.

3. What is library in python?

A)A Python library is **a reusable chunk of code that you may want to include in your programs/ projects**. Compared to languages like C++ or C, a Python libraries do not pertain to any specific context in Python.

**4. What is package in python?**

A)A package is **a directory of Python modules that contains an additional \_\_init\_\_.py file**, which distinguishes a package from a directory that is supposed to contain multiple Python scripts. Packages can be nested to multiple depths if each corresponding directory contains its own \_\_init\_\_.py file.

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

A)04:41 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 a my name in python jupyter(syntax)?

1. 1)  name = "Saanchi"  # string variable containing your name

  print("My name is " + name)

2)print("Ram")#My Name

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

A)**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 (such as addition, subtraction, multiplication, and division) when working with integers

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

A) it gives us syntax error. EOL error which means **end of line, it**. **doesn't have a closing or a beginning tag15. What is function in python?**

15. What is function in python?

A)A function is **a block of code which only runs when it is called**. You can pass data, known as parameters, into a function. A function can return data as a result.

16. What is type function in python?

A)The type() function is **used to get the type of an object**. Python type() function syntax is: type(object) type(name, bases, dict)

17. what is print function in python?

A)The print() function **prints the specified message to the screen, or other standard output device**. The message can be a string, or any other object, the object will be converted into a string before written to the screen.

18. what is overwriting in python?

A)If you want to override the Parent Class method, **create a function in the Child with the same name and number of parameters**. This is called function overriding in Python.