1.What is python? Why is it popular?

* Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. developed by Guido van Rossum.
* Easy to Learn and Use
* Versatility, Efficiency, Reliability, and Speed
* First-choice Language
* The Flexibility of Python Language
* It is interpreted

2. what are the key features of python?

- Easy to Code.

- Easy to Read.

- Free and Open-Source.

- Interpreted.

- Portable.

- Object-Oriented and Procedure-Oriented. ...

- Extensible.

3. What type of language is python? Programming or Scripting?

- Python is scripting language because it is object- oriented, high-level and dynamic language.

4. What is pep 8?

- It is a document that provided guidelines and best practice on how to write python code.

5. Python is interpreted language explain?

- Interpreted in simple terms means running code line by line. It means reads the code line by line and generates output based on the code.

6. Is python is case sensitive?

- Yes, Python is a case−sensitive programming language. This means that it considers uppercase and lowercase letters differently.

7. Is indentation required in python?

- Indentation is important to Python because it's how you determine scope.

8. What is reserved words?

- a small set of keywords that designate special language functionality.

9. What are the different data types available in python?

- Numbers.

- String.

- List.

- Tuple.

- Dictionary.

10. What is the indexing and slicing explain with example?

- “**Indexing”** means referring to an element of an iterable by its position within the iterable.

 “**Slicing”** means getting a subset of elements from an iterable based on their indices. By way of analogy, I was recently summoned to jury duty, and they assigned each potential juror a number.