1. What is dict in python?

A)**Python's efficient key/value hash table structure** is called a "dict". The contents of a dict can be written as a series of key:value pairs within braces { }, e.g. dict = {key1:value1, key2:value2, ... }.

2. Types of dict in python?

A)**There are 4 types of dictionaries in Python:**

* OrderedDict.
* DefaultDict.
* ChainMap.
* Counter.

3. What is slicing in dict in python?

A)Slicing a dictionary means **obtaining the subsets of the dictionary using the key-value pairs**. There are many ways to do that but those techniques are lengthy and confusing, we are going to use a module known as itertools, using this module, slicing a dictionary is very easy.

1. Why we use conditions:

A)Conditions **allow us to control what the program does and perform different actions based on these “if, then” logic statements**. What makes computer programs great is the ability to interact with a user- this is only possible with conditions that direct this type of interaction

2. Difference between if and elif?

A)Python will evaluate all three if statements to determine if they are true. Once a condition in the if elif else statement is true, Python stop evaluating the other conditions. Because of this, **if elif else is faster than three if statements**.

3. What is difference between operator and variable?

A)**When the program runs, each variable is replaced by its current value, and then the operators are applied**. The values operators work with are called operands. Expressions are generally a combination of numbers, variables, and operators. When complied and executed, they become a single value.

4. What is indentation? how many tab spaces it will take?

A)In the written form of many languages, an indentation or indent is **an empty space at the beginning of a line to signal the start of a new paragraph**. **Four spaces** should be used as the unit of indentation. The exact construction of the indentation (spaces vs.

tabs) is unspecified. Tabs must be set exactly every 8 spaces (not 4).

5. How to write if block (syntax)?

A)**if condition: # body of if statement**.