Questions on List:

1. What is a list in Python? How do you create one?
2. How do you append an item to a list?
3. What is the difference between append() and extend() methods?
4. How can you access elements from a list?
5. How do you remove an element from a list by value and by index?
6. Explain list slicing with an example.
7. How do you sort a list in Python?

Questions on Dict (Dictionary):

1. What is a dictionary in Python? How do you create one?
2. How can you access the values of a dictionary?
3. How do you add or update a key-value pair in a dictionary?
4. What is the difference between get() and direct key access for fetching values in a dictionary?
5. How do you remove a key from a dictionary?
6. Explain dictionary comprehensions with an example.
7. What methods can be used to iterate over keys, values, and items in a dictionary?

Questions on Tuple:

1. What is a tuple in Python? How is it different from a list?
2. How do you create a tuple with a single element?
3. Can you modify a tuple after it is created? Why or why not?
4. How do you access elements in a tuple?
5. How can you convert a list to a tuple and vice versa?
6. What are the advantages of using tuples over lists?

Questions on String:

1. What is a string in Python? How do you create one?
2. How can you concatenate two strings?
3. What are the different methods for formatting strings in Python?
4. How do you find the length of a string?
5. Explain string slicing and give an example.
6. How do you reverse a string in Python?
7. What is the difference between find() and index() methods for strings?

Questions on Set:

1. What is a set in Python? How do you create one?
2. How is a set different from a list?
3. How do you add an element to a set?
4. How can you remove an element from a set?
5. What is the use of set operations like union, intersection, and difference?
6. Explain the concept of a frozenset.
7. How can you check if an element exists in a set?