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Python Programs Assignment - 3

1. What is a data structure?
 2. What are the different types of data structures?
 3. What is the difference between data type and data structure?
 4. What are the alternative names of data structures?
 5. What is the meaning of mutable and immutable objects?
 6. What is a string?
 7. What are the different ways to create string in python? explain with examples?
 8. Explain about string?
 9. What is the difference between len() and count()?
 10. What is the difference between lower() and upper()?
 11. What is the difference between islower() and isupper()?
 12. What is the difference between title() and capitalize()?
 13. What is the difference between startswith() and endswith()?
 14. What is the difference between lstrip() and rtstrip()?
 15. Is string mutable or immutable object?
 16. How to write string in multiple lines, give an example?
 17. Give an example by using both single and double quotes?
 18. What is difference between find() and index() in the string?
 19. What is the difference between concatenation and addition?
 20. What is the difference between Repetition and multiplication?
 21. How to pack and unpack the string, give an example?
 22. Can we delete a specific character by using its number? if yes, give an example?
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23. Is Python string supports Item Assignment and Deletion?
 24. What is split() and What is the default delimiter of split?
 25. What is replace() and give an example?
 26. What is a list?
 27. Explain about List?
 28. Is list mutable or immutable?
 29. What are the different ways to create list?
 30. What is Homogeneous List? give an example?
 31. What is Heterogeneous List? Given an example?
 32. What are the different ways to add elements to existing list?
 33. What are the different ways to delete elements from existing list?
 34. What is the difference between append() and extend()?
 35. What is similarity between append() and extend()?
 36. What is difference between remove() and pop()?
 37. Can we perform Item Deletion in list? give an example?
 38. Can we perform Item Assignment in list? give an example?
 39. Can list allows duplicate elements or not?
 40. Is the insertion order fixed or not in the list?
 41. Can we clear all elements from list? If yes, give an example?
 42. How to delete an existing list object from memory? give an example?
 43. How to delete set of elements from list? Give an example?
 44. What is nested list? give an example?
 45. What is all()? give an example?
 46. What is any()? give an example?
 47. What is range()? give an example?
 48. What are optional arguments in the range()?
 49. Can we apply max() on the list which has int values, float values and str values?
 50. What is List indexing and Slicing?
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