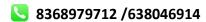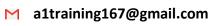# Python Course Content

Core Python

1. **Introduction to python**
2. **History Of Python**
3. **Advantages & Disadvantages of Python**
4. **Introduction to Interpreter**
5. **Python Installation**
6. **Python Program Execution Flow**
7. **Python Syntaxes**
8. **Introduction to IDE (Eclipse, PyCharam)**
9. **Python Program Development**
10. **Identifiers, keywords**
11. **Basic data types**
12. **Dynamic Typing**
13. **Type conversion functions**
14. **Operators**
15. **Operator Precedence**
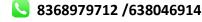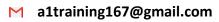16. **input/output**
17. **Reading User Input**

18. **Displaying Output**

19. **Formatting Output**

20. **Variables, expressions**

21. **Operators**

22. **Selection control statements (if, if..else)**

23. **range data type ,indexing and slicing**

24. **Iterative control statements**
(while, for..in, while...else, for..in .. else)

25. **Transfer control statements (Break & continue)**

26. **Python strings**
27. **List**
28. **Tuple**
29. **Set**
30. **Dictionary**
31. **Functions**
32. **Definition and advantages of a function**
33. **Understanding scope**
34. **Default arguments**
35. **Keyword arguments**
36. **Variable length arguments**
37. **Lambda expressions**
38. **Documentation & Annotations**
39. **Types of arguments**
40. **Scope of variables**
41. **Global variables**
42. **Local variables**
43. **Nested functions**
44. **Lambda functions**
45. **Exceptions**
46. **Syntax errors vs Runtime errors**
47. **Handling, Raising exceptions**
48. **Built-in exceptions**
49. **MemoryError**
50. **NameError**
51. **ValueError**
52. **TypeError**
53. **User-defined exceptions**

54. **Clean-up actions**