



TILAK MAHARASHTRA VIDYAPEETH, PUNE

ACADEMIC YEAR 2023-24

Assignment 1

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Subject: Python Programming

Submission Date: 28th Oct 2023

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1. Explain any Four of the following:
 - a) Features of Python
 - b) Modules in Python
 - c) Mutable & immutable
 - d) Explain break, continue and pass of Python
2. List out the main difference between lists and tuples?
3. Define the scope and lifetime of a variable in Python.
4. What are membership operators? Give examples for usage.
5. What are the features of list data structure?
6. What is a dictionary in Python?
7. What are the key features of Python?
8. What are the benefits of using Python?
9. What are Python namespaces?
10. What are decorators in Python
11. What are Dict and List comprehensions? With example.
12. What are the common built-in data types in Python?
13. What is slicing in Python?
14. What are Keywords in Python?
15. What are Literals in Python and explain about different Literals
16. How is memory managed in Python?
17. What are local variables and global variables in Python?

18. Explain Sets in python using example
19. What is the difference between Python Arrays and lists?
20. What is the difference between range & xrange?
21. How do you write comments in python?
22. What are docstrings in Python?
23. What is a dictionary in Python?
24. What does this mean: *args, **kwargs? And why would we use it?
25. What are negative indexes and why are they used?
26. Write a program in Python to execute the Bubble sort algorithm.
27. Write a program to produce Fibonacci series in Python.
28. Write a program in Python to check if a number is prime.
29. Write a program in Python to check if a sequence is a Palindrome.