

Siddaganga Institute of Technology, Tumkur
Department of Electronics and Communication
Introduction to Python programming (PLC2) Academic Year: 2024-25
Assignment 2

1. Differentiate between absolute and relative path names. Give examples
2. Define the 'absolute path' of a file. When 'cwd' is set to C:\bacon, write the absolute path and relative path for other folders
3. Illustrate the different methods of file operations supported to Python shutil module.
4. Explain the different steps involved in backing up a folder into a ZIP file.
5. Explain how to save variables using shelve module with an example code.
6. Differentiate between shutil.copy() and shutil.copytree() methods.
7. Discuss all file accessing modes with illustrated examples, and write a Python program to count and display the keywords from a Python source file.
8. Differentiate between the read() and readlines() methods.
9. List and Illustrate the methods with examples for finding file sizes and folder contents
10. When the objects become mutable? Explain this concept with the help of a rectangle class and suitable methods associated with that class.
11. What are pure functions? Explain in detail with a suitable program.
12. What are modifiers? Write a suitable code to explain this concept.
13. Demonstrate polymorphism with functions to find histogram to count the number of times each letter appears in a word and in sentence.
14. Differentiate between init and str methods along with an example used in Python programming language.
15. Write a definition for a class named Circle with attributes center and radius, where center is a Point object and radius is a number