Module – 3

1. Write a Python Program to find an American phone number (example: 415-555-4242) in a given string using Regular Expressions.

2. Describe the difference between Python os and os.path modules. Also, discuss the following methods of os module

   a) chdir() b) rmdir() c) walk() d) listdir() e) getcwd()

3. Demonstrate the copy, move, rename and delete functions ofshutil module with Python code snippet.

4. Describe the following with suitable Python code snippet.

   (i) Greedy and Non Greedy Pattern Matching

   (ii) findall() method of Regex object.

   (iii) charcter class

5. Explain the file Reading/Writing process with suitable Python Program.

6. Define assertions. What does an assert statement in python consists of? Explain how assertions can be used in traffic light simulation with Python code snippet.

7. Demonstarte project Phone Number and Email Address Extractor.

8. Explain Absolute and Relative Paths with example.

9. Explain project Generating Random Quiz Files with all steps.

10. Demonstrate Assertion , Write a python program using an Assertion in a Traffic Light Simulation.

11. Write a python program Backing Up a folder into a Zip File , Explain steps involved in the above project.

12. List and explain Shorthand code for common character classes .Illustrate how do you define your own character class?

13. Explain the usage of Caret and dollar sign characters in regular expression.

14. Write a python program to extract phone numbers and email addresses using regex

15. Explain saving of variables using shelve module.

16. With code snippet, explain reading, extracting and creating ZIP files

17. How do we specify and handle absolute ,relative paths?