List of Practical Questions for Class XII Python Course

1. Read a text file line by line and display each word separated by a #.
2. Read a text file and display the number of vowels/ consonants/ uppercase/ lowercase characters in the file.
3. Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message.
4. Create a binary file with roll number, name and marks. Input a roll number and update the marks.
5. Write a function stats() that accepts a filename and reports the file's longest line.
6. Write a function *remove_lowercase()* which accepts two file names and copies all lines that do not starts with lowercase letter from first file to second file.
7. A text file contains alphanumeric text. Write a Python code to read that file and prints only the numbers/ digits of that file.
8. Write a random number generator that generates random numbers between 1 and 6 (simulates a dice).
9. Write a Python program to implement a stack using a list data-structure.
10. Write a Python program to implement a queue using a list data-structure.
11. Write a function that takes a number n and then returns a randomly generated number having exactly n digits (not starting with zero). For ex. If n is 2, then function can return a number 10-99 but not 07, 02 etc.
12. Write a function that takes 2 numbers and returns the number that has minimum one's digit. For ex. In 491 and 278, it should return 491 as 491's 1 is less than 278's 8.
13. Create a table student (roll_no, name, class, city, marks (%)) in school database and insert data. Perform the update table command to modify the data.
14. Write SQL query to display the data in ascending order of their class. Write SQL query to display the data in descending order of their class and ascending order of their marks.
15. Write SQL queries for alter table command to add new attribute, modify data type and drop attributes.

16. Write SQL queries to implement GROUP BY command and find the min, max, sum, count and average.
17. Write a Python script to establish a database connectivity with MySQL and print the connection object.
18. Write a Python script to display the records from student table of school database and insert one record for a class 12 student.
19. Write a Python script which displays the content of table student from school database and then updates the name of a student based on class and roll_no then displays the updated table.
20. Write a Python Code to implement the rowcount, fetchone, fetchmany and fetchall functions.