

PRACTICAL FILE- COMPUTER SCIENCE (083)**LIST OF PRACTICALS (2019-20) CLASS-XII****Programming Language : Python**

S. No.	NAME OF PRACTICAL
1	Write a program in python to check a number whether it is prime or not.
2	Write a program to check a number whether it is palindrome or not.
3	Write a program to calculate compound interest.
4	Write a program to display ASCII code of a character and vice versa.
5	Write a program to input a character and to print whether a given character is an alphabet, digit or any other character.
6	Write a program to calculate the factorial of an integer using recursion.
7	Write a program to print fibonacci series using recursion.
8	Write a program for binary search.
9	Write a recursive python program to test if a string is palindrome or not.
10	Write a program to count the number of vowels present in a text file.
11	Write a program to write those lines which have the character 'p' from one text file to another text file.
12	Write a program to count number of words in a file.
13	Write a python function sin(x,n) to calculate the value of sin(x) using its taylor series expansion up to n terms. $\sin(x) = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \frac{x^7}{7!} + \dots,$
14	Write a program to generate random numbers between 1 to 6 and check whether a user won a lottery or not.
15	Write a program to create a library in python and import it in a program.
16	Write a program to plot a bar chart in python to display the result of a school for five consecutive years.
17	Write a program in python to plot a graph for the function $y = x^2$
18	Write a program in python to plot a pie chart on consumption of water in daily life.
19	Write a program for linear search.
20	Write a program for bubble sort.
21	Write a menu based program to perform the operation on stack in python.
22	Write a menu based program to perform the operation on queue in python.
23	Write a menu based program for circular queue.
24	Create a graphical calculator using tkinter library.
25	Write a program to open a webpage using urllib library.
26	Write a program to calculate EMI for a loan using numpy.
27	Write a program to find the most common words in a file.
28	Write a program to perform read and write operation with .csv file.
29	Write a Django based web application and write the data to a csv file.
	SQL Queries :
30	Queries using DISTINCT, BETWEEN, IN, LIKE, IS NULL, ORDER BY, GROUP BY, HAVING
31	Queries for Aggregate functions- SUM(), AVG(), MIN(), MAX(), COUNT()
32	Write a program to connect Python with MySQL using database connectivity and perform the following operations on data in database: Fetch, Update and delete the data