PRACTICAL FILE

COMPUTER SCIENCE (083)

LIST OF PRACTICALS CLASS-XII

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| **S.**  **No.** | **NAME OF PRACTICAL** |
| 1 | Write a program in python to check a number whether it is prime or not (using functions). |
| 2 | Write a program to check a number whether it is palindrome or not(using functions). |
| 3 | Write a program to display ASCII code of a character and vice versa. |
| 4 | Write a program using functions that reads a line and prints its statistics like:  Number of uppercase letters:  Number of lowercase letters:  Number of digits: |
| 5 | Write a program to compute GCD and LCM of two numbers using functions. |
| 6 | Write a program using a function FACT( ) to calculate the factorial of an integer . |
| 7 | Write a program to generate random numbers between 1 to 6 and check whether a user won a lottery or not. |
| 8 | Write a program to count the number of vowels present in a text file. |
| 9 | Write a program to write those lines which have the character 'p' from one text file to another text file. |
| 10 | Write a program to count number of words in a text file. |
| 11 | Write a python program to append one more record in the existing text file name as student.txt. |
| 12 | Write a python program to write student data in a binary file. |
| 13 | Write a python program to read student data from a binary file. |
| 14 | Write a python program to modify/update student data in a binary file. |
| 15 | Write a python program to delete student data from a binary file. |
| 16 | Write a python program to search a student record in a binary file. |
| 17 | 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. |
| 18 | Create a binary file with roll number, name and marks. Input a roll number and update the marks. |
| 19 | Write a program to perform read and write operation with .csv file. |
| 20 | Create a CSV file by entering user-id and password, read and search the password for given userid. |
| 21 | Write a program to pass an integer list as stack to a function and push only those elements in the stack which are divisible by 7. |
| 22 | Write a menu-based program to perform the operation on stack in python. |
|  | **SQL Queries :-** |
| 21 | Queries using Create database, Show databases, USE, Create table, drop table, Show Tables, Describe, Rename, Alter, Select, From, Where, Insert, Update commands |
| 22 | Queries using DISTINCT, BETWEEN, IN, LIKE, IS NULL, ORDER BY, GROUP BY, HAVING |
| 23 | Queries for Aggregate functions- SUM( ), AVG( ), MIN( ), MAX( ), COUNT( ) |
|  | **Interface of python with a SQL database :-** |
| 24 | Write a program to connect Python with MySQL using database connectivity and perform the following operation on data in database: Create a table in database |
| 25 | Write a program to connect Python with MySQL using database connectivity and perform the following  operation on data in database: Insert record in the table |
| 26 | Write a program to connect Python with MySQL using database connectivity and perform the following operation on data in database: Fetch records from the table using fetchone( ), fetchall() and fetchmany( ). |
| 27 | Write a program to connect Python with MySQL using database connectivity and perform the following operation on data in database: Update record in the table |
| 28 | Write a program to connect Python with MySQL using database connectivity and perform the following operation on data in database: Delete record from the table |