

CLASS-12
COMPUTER SCIENCE
PRACTICAL PROGRAM PRACTICE

DAY-1

PROGRMS ON TEXT FILES:

1. Write a function to open the text file ABC.txt and count the number of words that start with 'the', like the, their, they, them, these etc.
2. Write a Python program to count all lines in the file ABC.txt having 'a' as the last character.
3. Write a Python program to count the number of digits in the text file DIGIT.txt.
4. Write a function to transfer all lines starting with a vowel from ORIGIN.txt to NEW.txt.
5. Write a Function to read data from a text file DATA.TXT, and display those words, which are less than 4 characters.
6. Write a program to copy all lines that do not start with a lower case letter from the first file to the second file.
7. Write a program to copy a text file "source.txt" onto "target.txt" barring with the lines staring with a "@" sign.

DAY-2

PROGRMS ON BINARY FILES:

8. Write a function to add the following Employee records (Empno, name and city, salary) onto a Binary file "Emp.dat".

Empno	Name	City	Salary
E01	Ayush	Delhi	65000
E02	Shreya	Mumbai	54000
E03	Rahul	Delhi	76000
E04	Kavya	Kolkata	43000

9. Write a function to Delete an Employee records (Empno, name and city, salary) onto a Binary file “Emp.dat”. Record will be deleted based on Empno passed as parameter to the function.

10. Write a function to Update salary of an Employee records (Empno, name and city, salary) onto a Binary file “Emp.dat”. Record will be updated based on Empno passed as parameter to the function.

11. Write a function to display the record of those Employee whose salary is greater than 50000 and city is “Delhi”.

DAY-3

PROGRMS ON CSV FILES:

Create a csv file Student.csv and write the following program.

Roll	Name	Marks	Grade	Age
1	Rohit	67	B	18
4	Manas	88	A	17
7	Romit	91	O	16
8	Shreya	98	O	18

12. Write a program to display the record of those Student whose Marks is more than 90 and Age is more than 17 form a csv file the “Student.csv”.

13. Write a program to display the Name of those Student whose name is starting with ‘R’ and Grade is “O” from a csv file the “Student.csv”.

14. Write a program to display the name of the Student by descending order of their Marks from a csv file the “Student.csv”.

15. Write a program to display maximum and minimum marks from the file “Student.csv”.

DAY-4

PROGRMS ON LIST, STRING & DICTIONARY USING FUNCTION:

16. Write a program using function to input a string (word). Convert it into lowercase letters. Count and print the frequency of each alphabet present in the string. The output should be given as:

Sample Input: Alphabets

Sample Output:

```
=====
Alphabet  Frequency
=====
a      2
b      1
e      1
h      1
l      1
p      1
s      1
```

17. Write a program using function to input a list of elements and display a list with only duplicate elements after removing the unique ones.

Output:

The original list: [10, 20, 30, 10, 40, 20, 50]

The Duplicate list: [10, 20]

18. Write a program to input a string and display it in the descending order of alphabets using bubble sorting technique.

Sample Input: cattle

Sample Output: **t**ttleca

19. Write a program to input two dictionaries and then subtract the values of two dictionaries.

Output:

The original dictionary 1: {'gfg': 6, 'is': 4, 'best': 7}

The original dictionary 2: {'gfg': 10, 'is': 6, 'best': 10}

The difference dictionary is: {'gfg': 4, 'is': 2, 'best': 3}