**ACD LAB**

**EXPERIMENTS**

**BY –**

**AVIRAL RAJ(199302157)**

**IT-C**

EXPERIMENT 1- Write a program to count number of characters, words, whitespaces and number of new lines in a given file.

CODE-

#include <stdio.h>

#define EGFILE 100

int main()

{

    FILE \*fp;

    int countletter = 0;

    int countword = 0;

    int countline = 0;

    char filename[EGFILE];

    char c;

    printf("Enter file name: ");

    scanf("%s", filename);

    fp = fopen(filename, "r");

    if (fp == NULL)

    {

        printf("Could not open file %s",

               filename);

        return 0;

    }

    while ((c = fgetc(fp)) != EOF)

    {

        countletter++;

        if (c == ' ' || c == '\n')

        {

            countword++;

        }

        if (c == '\n')

        {

            countline++;

        }

    }

    if (countletter > 0)

    {

        countword++;

        countline++;

    }

    fclose(fp);

    printf("The file %s has %d characters, %d words and %d lines.\n ",

           filename, countletter, countword, countline);

    return 0;

}

EGFILE TEXT –

Text

Description automatically generated

OUTPUT –

