**ACD LAB**

**EXPERIMENTS**

**BY –**

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**IT-C**

EXPERIMENT 2- Write a program to count the number of vowels and consonants in a given string.

CODE-

#include <stdio.h>

#define EGFILE 100

int main()

{

    FILE \*fp;

    int countvowel = 0;

    int countcons = 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)

    {

        if (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u' || c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U')

        {

            countvowel++;

        }

        else

        {

            countcons++;

        }

    }

    // if (countletter > 0)

    // {

    //     countword++;

    //     countline++;

    // }

    // Close the file

    fclose(fp);

    printf("The file %s has %d vowels and %d consonants.\n ",

           filename, countvowel, countcons);

    return 0;

}

EGFILE TEXT –

Text

Description automatically generated

OUTPUT –

**Shape, rectangle

Description automatically generated**

EXPERIMENT 2- Write a program to check whether the entered string is a keyword or not. If so, then count number of keywords.

CODE-

#include <stdio.h>

#include <string.h>

int main()

{

    char \_string[20];

    char keyword[32][10] =

        {

            "auto", "double", "int", "struct", "break", "else", "long",

            "switch", "case", "enum", "register", "typedef", "char",

            "extern", "return", "union", "const", "float", "short",

            "unsigned", "continue", "for", "signed", "void", "default",

            "goto", "sizeof", "voltile", "do", "if", "static", "while"};

    int flag = 0, i;

    printf("enter a string\n");

    scanf("%s", &\_string);

    for (i = 0; i < 32; i++)

    {

        if (strcmp(\_string, keyword[i]) == 0)

        {

            flag = 1;

        }

    }

    if (flag == 1)

    {

        printf("%s is a keyword", \_string);

    }

    else

    {

        printf("%s is not a keyword", \_string);

    }

}

OUTPUT –

**Shape

Description automatically generated with low confidence**