TITLE 26

Write a C program to find length of string using pointers

OBJECTIVE:

Implementation of the data structures

PROBLEM STATEMENT:

In this problem we need to calculate the length of a string using pointers.

ALGORITHM:

START

INPUT: Read from users.

COMPUTATION: Compute the count of the string using pointers

DISPLAY: Display the count of the string entered

STOP

PROGRAM:

#include <stdio.h>

//calculates the length of the string and return the length

int string\_ln(char\* p){

int count = 0;

//runs the loop till the end of the list

while(\*p != '\0'){

count++;

p++;

}

return count;

}

int main(int argc, char const \*argv[])

{

char str[40];

printf("Enter a string:\n");

gets(str);

printf("The length of string: /n",string\_ln(str));

return 0;

}

CONCLUSION:

Structures helps to maintain the complex data and it is the phsical form of the data. By solving this problem we can understand the complexity of datatypes and its implementation.

OUTPUT:

Enter a string: hello

The length of string:5