TITLE 35

Write a C program to reverse a string using STACK

OBJECTIVE:

Implementation of the stack and reversing it.

PROBLEM STATEMENT:

In this problem we use STACK to reverse a string.

ALGORITHM:

START

INPUT: Read from the user

COMPUTATION: Computing the reverse of a string using STACK

DISPLAY: Displaying the reverse of the string

STOP

PROGRAM:

#include <stdio.h>

#include <string.h>

#define max 100

int top,stack[max];

void push(char x){

if(top == max-1){

printf("stack overflow");

} else {

stack[++top]=x;

}

}

void pop(){

printf("%c",stack[top--]);

}

main()

{

char str[]="hello";

int len = strlen(str);

int i;

for(i=0;i<len;i++)

push(str[i]);

for(i=0;i<len;i++)

pop();

}

CONCLUSION:

This program help us to understand the concept of stacks.

OUTPUT:

olleh