***PROGRAM:***

#include<stdio.h>

#include<string.h>

#define MAX 4

int stack[MAX];

int top;

void push()

{

int token;

if(top==MAX-1)

{

printf("\nStack full");

return;

}

printf("\nEnter the element to be inserted:");

scanf("%d",&token);

top=top+1;

stack[top]=token;

}

int pop()

{

int t;

if(top==-1)

{

return -1;

}

t=stack[top];

top=top-1;

return t;

}

void show()

{

int i;

printf("\nThe Stack elements are:\nTOP-->");

for(i=top;i>=0;i--)

{

printf("\t|%d|\n",stack[i]);

}

}

void main()

{

int choice,token;

top=-1;

printf("STACK USING ARRAY");

do

{

printf("\n1.PUSH\n2.POP\n3.show or display\n4.exit");

printf("\nEnter your choice for the operation: ");

scanf("%d",&choice);

switch(choice)

{

case 1:

push();

show();

break;

case 2:

token=pop();

if(token==-1)

{

printf("\nStack empty");

}

else

{

printf("\nThe element deleted is:%d",token);

show();

break;

}

case 3:

show();

break;

case 4:

exit(0);

default:

printf("\nWrong choice");

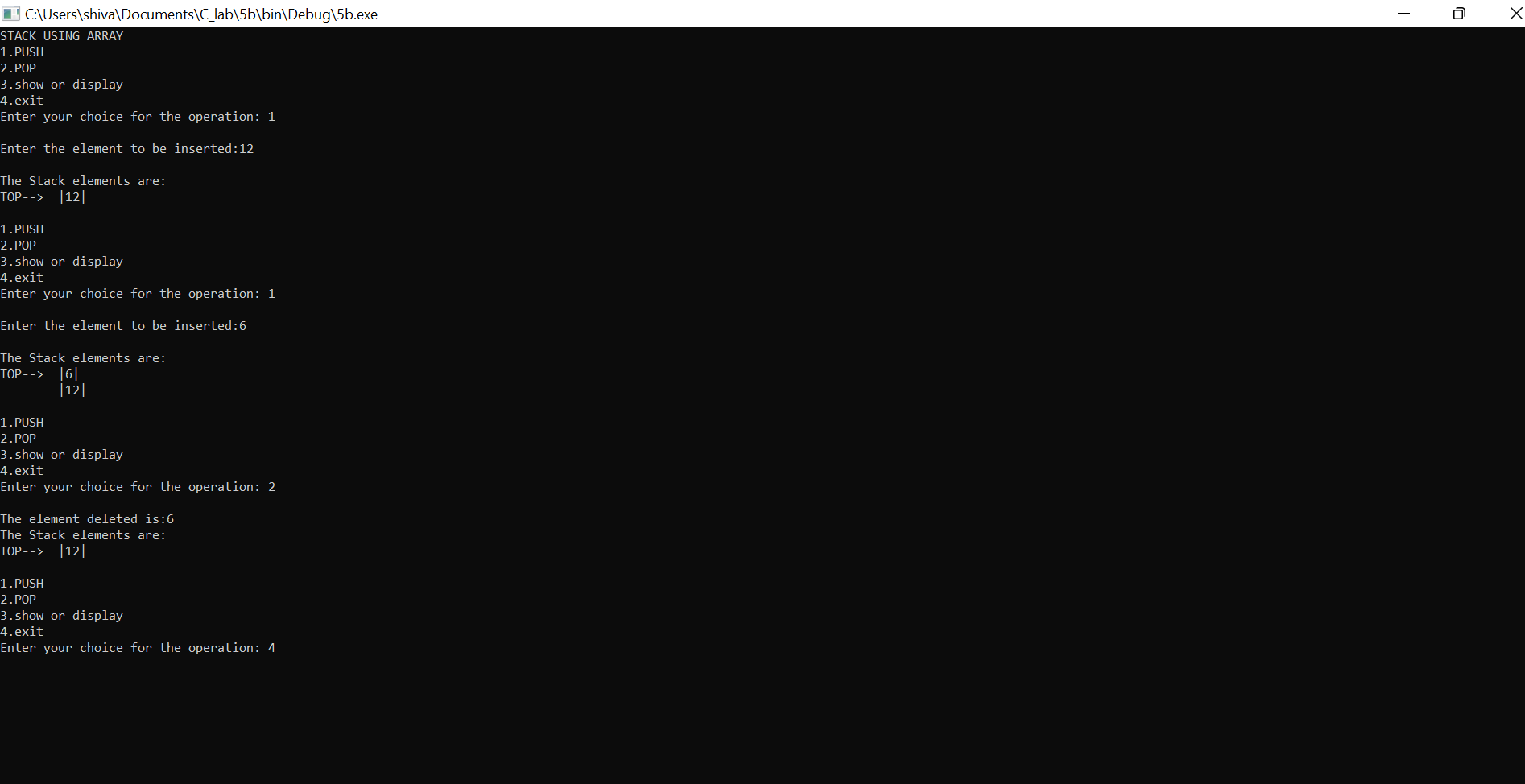
break;

}

}while(choice<5);

}

***OUTPUT:***

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