**WEEK 2**

#include <stdio.h>

#include<conio.h>

#include<stdlib.h>

#define SIZE 5

void push(int);

void pop();

void display();

int stack[SIZE],top=-1;

void main()

{

int value,choice;

while(1)

{

printf("\n\n\*\*\*menu\*\*\*\n");

printf("enter the operation to be performed\n");

printf("1.push\n2.pop\n3.disply\n4.exit\n");

scanf("%d",&choice);

switch(choice){

case 1:printf("enter the value to be inserted");

scanf("%d",&value);

push(value);

break;

case 2:pop();

break;

case 3:display();

break;

case 4:exit(0);

default:printf("\nwrong selection.Try again");

}

}

}

void push(int value)

{

if(top==SIZE-1)

printf("\nInsertion not possible. Stack overflow\n ");

else{

top++;

stack[top]=value;

printf("\nInsertion successful");

}

}

void pop()

{

if(top==-1)

printf("Deletion not possible. Stack is underflow");

else{

printf("Deleted:%d",stack[top]);

top--;

}

}

void display()

{

int i;

if(top==-1)

printf("stack is empty");

else{

printf("\n stack elements are\n");

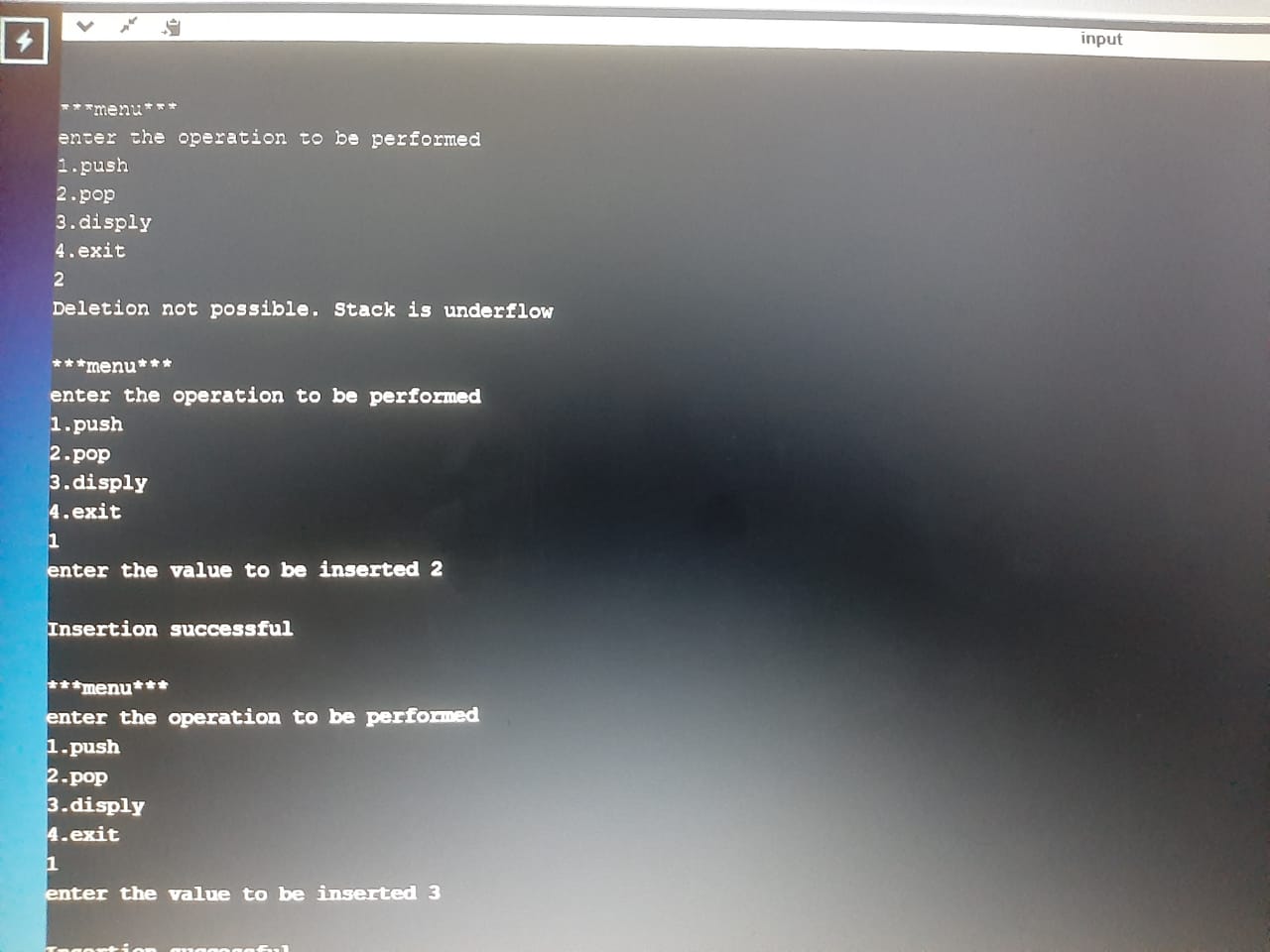
for(i=top;i>=0;i--)

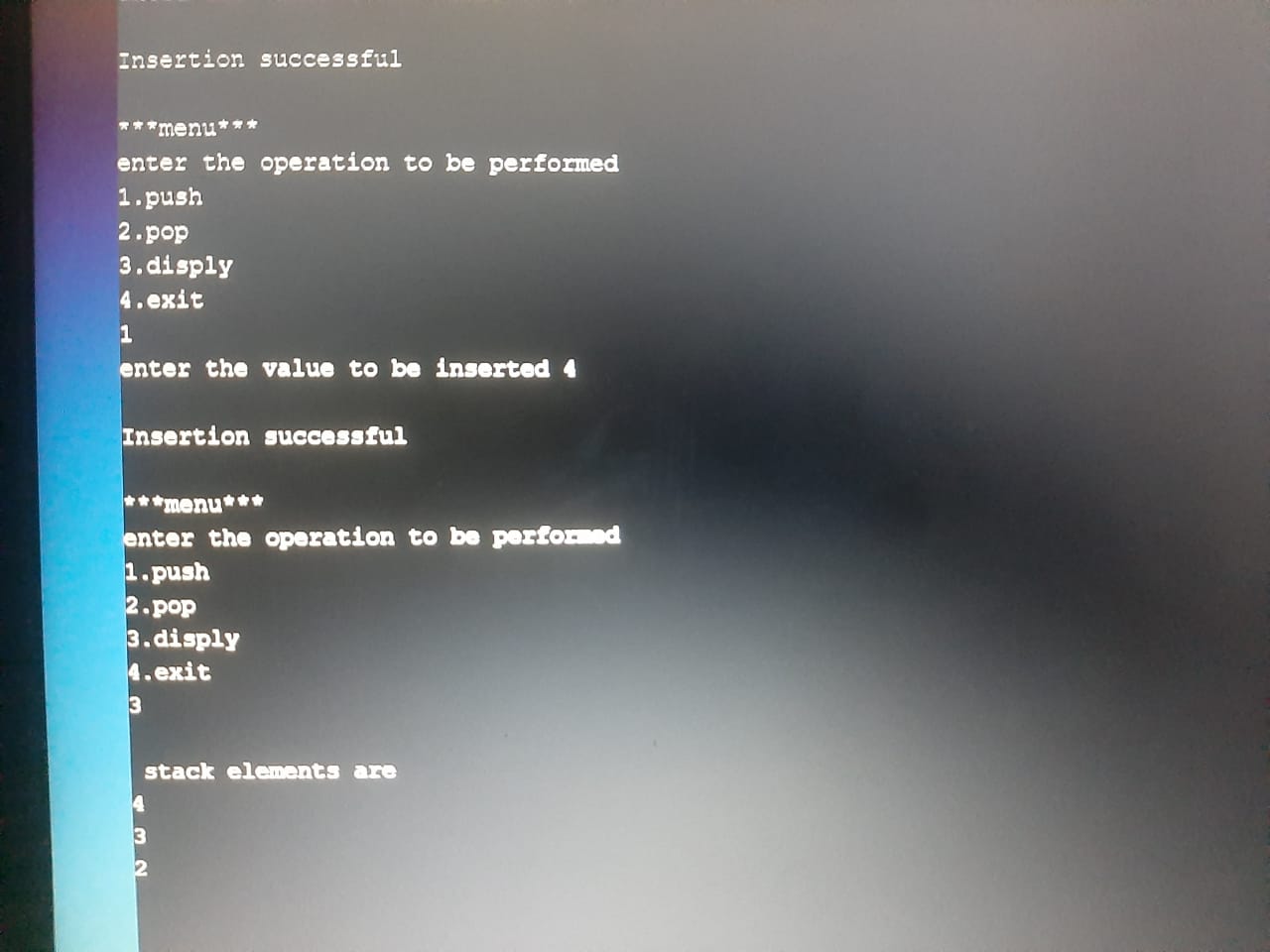
printf("%d\n",stack[i]);

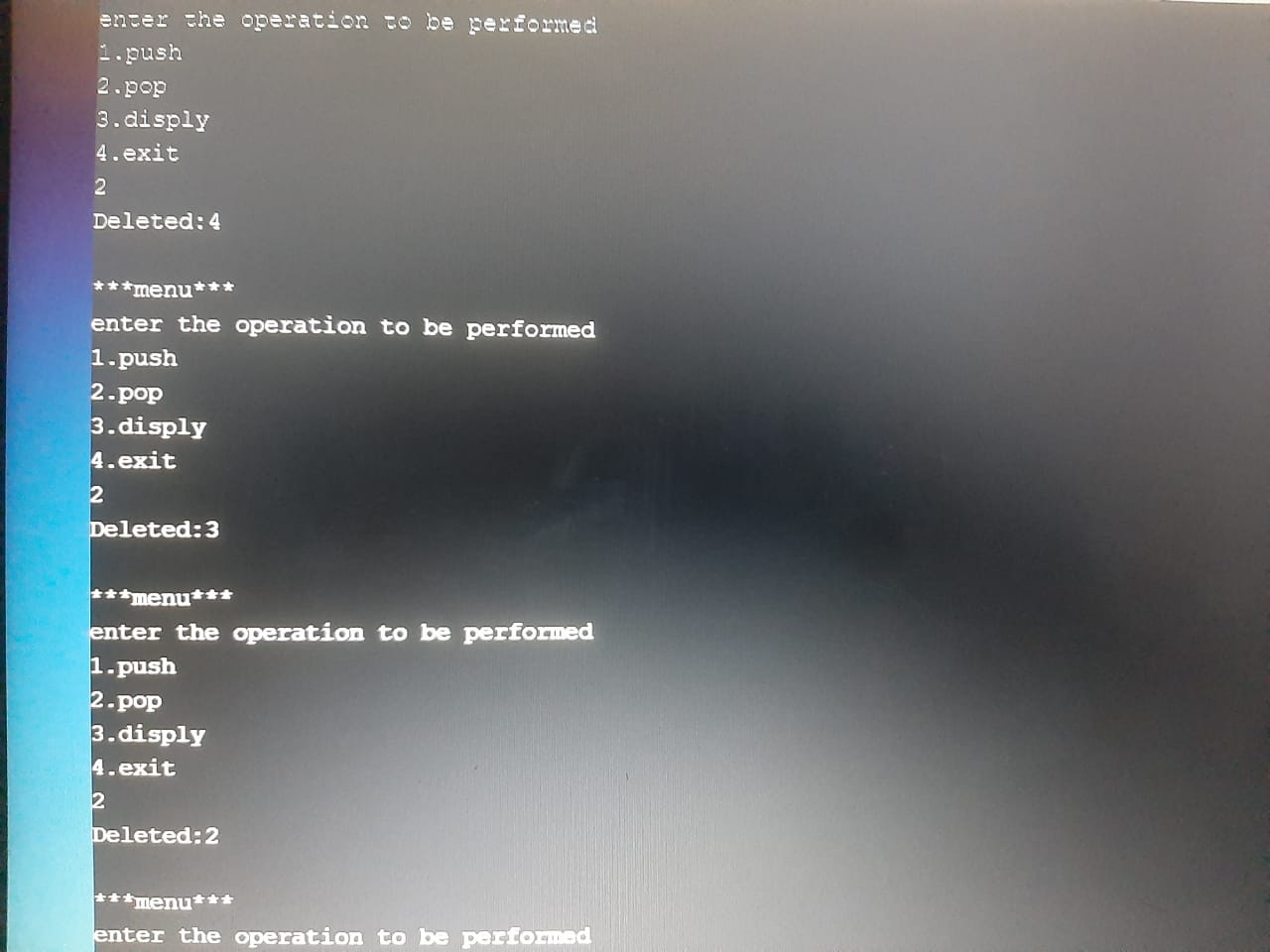
}

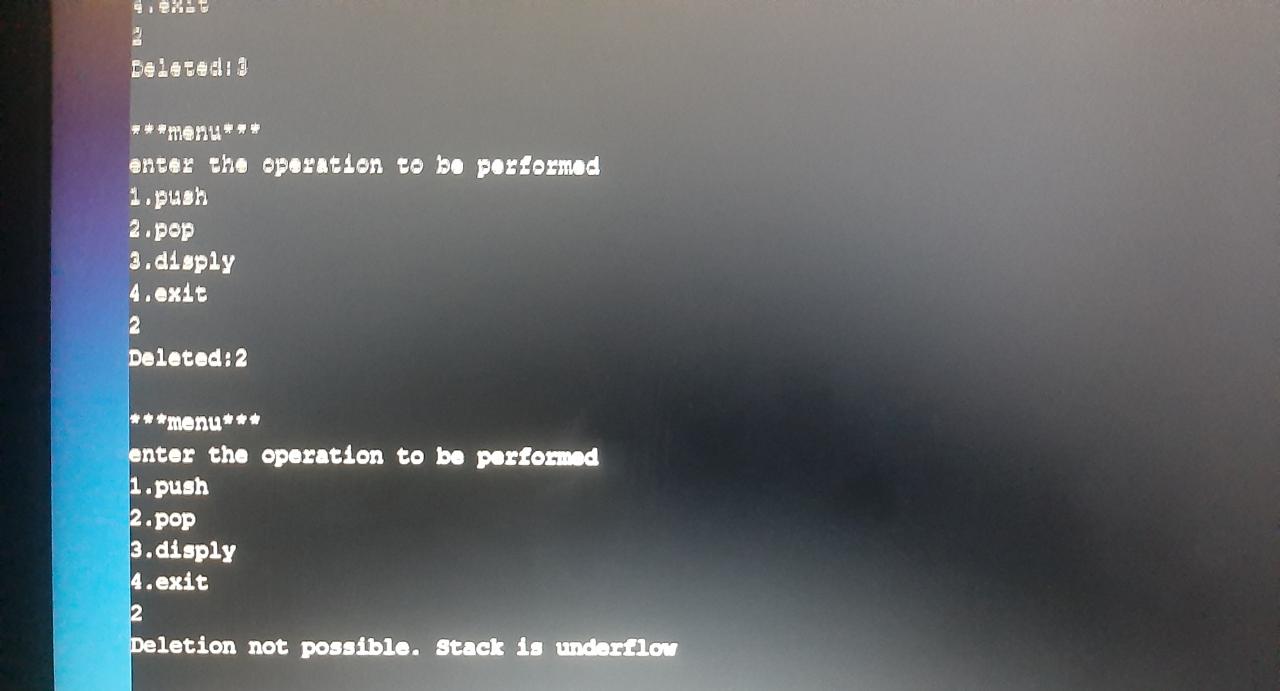
}

**OUTPUT**

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