#include <stdio.h>

#define n 5

void push();

void pop();

void display();

int top=-1;

int stack[n];

void main()

{

int ch;

printf("SHREYA S RUDAGI\n");

printf("1BM22CS267\n\n");

while(1)

{

printf("Stack menu:\n");

printf("\n1.Push \n2.Pop \n3.Display \n4.exit\n\n");

printf("Select your choice:");

scanf("%d",&ch);

switch(ch)

{

case 1:push();

break;

case 2:pop();

break;

case 3:display();

break;

case 4:exit(0);

default:printf("Invalid choice");

}

}

}

void push()

{

int val;

if(top==n-1)

{

printf("Stack is full");

}

else

{

printf("Enter the element:");

scanf("%d",&val);

top++;

stack[top]=val;

}

}

void pop()

{

if(top==-1)

{

printf("Stack is empty");

}

else

{

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

top--;

}

}

void display()

{

if(top==-1)

printf("Stack is empty");

else

{

int i;

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

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

}

}

