#include<stdio.h>

#include<stdlib.h>

void push(int);

void pop();

void display();

int A[5],top=-1;

void main()

{

int ch,val;

while(top<=4)

{

printf("Enter 1 for Push function,2 for Pop function,3 for displaying the stack and 4 to exit\n");

scanf("%d",&ch);

switch(ch)

{

case 1:printf("Enter the value to be inserted in the stack\n");

scanf("%d",&val);

push(val);

break;

case 2:pop();

break;

case 3:display();

break;

case 4:exit(0);

}

}

}

void push(int val)

{

if(top==4)

{

printf("Stack Overflow\n");

}

else

{

top++;

A[top]=val;

}

}

void pop()

{

if(top==-1)

{

printf("Stack underflow\n");

}

else

{

printf("Deleted =%d\n",A[top]);

top--;

}

}

void display()

{

int i;

if(top==-1)

{

printf("The stack is empty\nCant display\n");

}

else

{

printf("The elements in the stack are\n");

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

{

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

}

}

}

**OUTPUT SCREEN:**

