```c
#include <stdio.h>
#define size 5
int top=-1;
void push(int [], int);
int pop(int[]);
void display(int []);
int main()
{
int a[5];

int choice,element;
int ch;
do
{
printf("Enter your choice\n");
printf("1. Push\n");
printf("2. Pop\n");
printf("3. Display\n");
scanf("%d",&choice);
switch(choice)
{
case 1: printf("Enter the element to be pushed\n");
scanf("%d",&element);
push(a,element);
break;
case 2: element=pop(a);
if(element==-1)
printf("Stack Underflow cannot remove\n");
else
printf("Poped element is %d \n",element);
break;
case 3: display(a);
break;
default: printf("Invalid choice\n");
```

```c
        }
        printf("Do you want to continue:click-1\n");
        scanf("%d",&ch);
    } while(ch==1);
    return 0;
}

void push(int a[], int ele)
{
    if (top==size-1)
    {
        printf("Stack overflow cannot push\n");
    }
    else
    {
        top++;
        a[top]=ele;
    }
}

int pop(int a[])
{
    int ele;
    if(top==-1)

        return -1;

    else
    {
        ele=a[top];
        top--;
        return (ele);
    }


}
```

```
void display(int a[])
{
int i;
printf("The stack elements\n");
for(i=top;i>=0;i--)
{

printf("%d\t",a[i]);
}
printf("\n");
}
```

```
Enter your choice
1. Push
2. Pop
3. Display
1
Enter the element to be pushed
20
Do you want to continue:click-1
1
Enter your choice
1. Push
2. Pop
3. Display
1
Enter the element to be pushed
14
Do you want to continue:click-1
1
Enter your choice
1. Push
2. Pop
3. Display
2
Poped element is 14
Do you want to continue:click-1
1
```

```
Enter your choice
1. Push
2. Pop
3. Display
3
The stack elements
20
Do you want to continue:click-1
2


...Program finished with exit code 0
Press ENTER to exit console.
```