```
#include <stdio.h>
int stack[50];
int p=-1;
void push(int data)
{
  if (p==49)
    printf("Stack Overflow \n");
  else{
    p+=1;
    stack[p]=data;
 }
}
void pop(){
  if (p==-1)
    printf("Stack Underflow \n");
  else {
    printf("Element deleted: %d \n", stack[p]);
    p-=1;
  }
}
void display(){
```

```
printf("Elements \n");
  for (int i=0;i<=p;i++)
    printf("%d ",stack[i]);
}
int main(){
  int n,x;
  for (int i=0;i==0;){
  printf("Enter choice:\n1.Push 2.Pop 3.Display 4.Stop\n");
  scanf("%d",&n);
  switch (n){
  case 1:
    scanf("%d",&x);
    push(x);
    break;
  case 2:
    pop();
    break;
  case 3:
    display();
    break;
  case 4:
    exit(0);
    break;
  default:
    printf("Wrong Choice\n");
```

```
break;
}

return 0;
}
```

```
Select "D:\Prg data\Stack implementation\bin\Debug\Stack implementation.exe"
10
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
15
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
20
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
Elements
10 15 5 20
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
Element deleted: 20
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
Element deleted: 5
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
Element deleted: 15
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
2
Element deleted: 10
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
Elements
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
Stack Underflow
Enter choice:
1.Push 2.Pop 3.Display 4.Stop
```