



```
1 package dj;
2 import java.util.ArrayList;
3
4 class GenericStackException extends RuntimeException {
5     public GenericStackException(String message) {
6         super(message);
7     }
8 }
9 class GenericStack<T> {
10    private ArrayList<T> items;
11    private int top;
12
13    public GenericStack() {
14        items = new ArrayList<>();
15        top = 0;
16    }
17    private boolean isEmpty() {
18        return top == 0;
19    }
20    public void push(T item) {
21        items.add(item);
22        top++;
23    }
24    public T pop() {
25        if (isEmpty()) {
26            throw new GenericStackException("Underflow Error");
27        }
28        return items.remove(--top);
```

Console

<terminated> StackDriver [Java Application] C:\Users\MAITHREYEE\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.2.v20240802-1626\jre\bin\javaw.exe (22 Aug 2024, 8:11:27 am – 8:11:28 am) [pid: 10928]

```
Popped: 4
Popped: 3
Popped: 2
Popped: 1
Underflow Error
```