

```
import java.util.Stack;

public class StackExample {
    public static void main(String[] args) {
        Stack<Integer> stack = new Stack<>();

        stack.push(90);
        stack.push(80);
        stack.push(70);
        stack.push(60);
        stack.push(50);

        System.out.println("Stack after pushing elements: " + stack);

        int removedElement1 = stack.pop();
        System.out.println("Removed element from the stack: " + removedElement1);
        System.out.println("Stack after popping an element: " + stack);

        int removedElement2 = stack.pop();
        System.out.println("Removed element from the stack: " + removedElement2);
        System.out.println("Stack after popping an element: " + stack);

        int topElement = stack.peek();
        System.out.println("Element at the top of the stack: " + topElement);
        System.out.println("Stack after peeking at the top element: " + stack);
    }
}
```

