```java
*/
    import java.util.*;
public class Stack {

    public static void main(String[] args) {
        Deque <Integer>stack = new ArrayDeque<>();
        Scanner scanner = new Scanner(System.in);
System.out.println("\nStack Operations:");
System.out.println("1. Push");
System.out.println("2. Pop");
System.out.println("3. Peek");
System.out.println("4. Display Stack");
System.out.println("5. Exit");
while (true) {
System.out.print("\nEnter your choice: ");
int choice = scanner.nextInt();
switch (choice) {
case 1:
System.out.print("Enter a number to push: ");
int num = scanner.nextInt();
stack.push(num);

scanner.close();
}
}
}
```

output:

```
Stack Operations:
1. Push
2. Pop
3. Peek
4. Display Stack
5. Exit

Enter your choice: 1
Enter a number to push: 56
56 pushed onto the stack.
```