

```
import java.util.Scanner;

public class quesr{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        try {
            int[] numbers = { 10, 20, 30, 40, 50 };

            System.out.print("Enter the index to access: ");
            int index = sc.nextInt();

            int value = numbers[index];
            System.out.println("Value at index " + index + ": " + value);
        }
        catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("Error: Invalid index. The index is out of bounds.");
        }
        catch (Exception e) {
            System.out.println("Error: Invalid input. Please enter a valid integer index.");
        }
        finally {

        }
    }
}
```