Error checklist

(I/O Errors Handling) by keyboard.

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Code

```java
import java.util.InputMismatchException;
import java.util.Scanner;

public class IOErrorHandling {
  public static void handleInput() {
    Scanner scanner = new Scanner(System.in);

    try {
      System.out.print("Enter an integer: ");
      long number = scanner.nextLong();

      if (number > Integer.MAX_VALUE) {
        System.out.println("Error: Input value exceeds Integer.MAX_VALUE==2147483647.");
      } else {
        int intValue = (int) number;
        System.out.println("You entered Integer: " + intValue);
      }
    } catch (InputMismatchException e) {
      System.out.println("Error: Input is not a valid integer.");
    }

  }
```

```
public static void main(String[] args) {

    handleInput();

  }

}
```

Testcases

TestCase_ID	Description	Input data	Expected outcome	Actual outcome	status
T_01	Valid integer input	42	Integer printed	Values are printed	Pass
T_02	Character or string input	hamza	Error Message: Input is not a valid integer	Error: Input is not a valid integer	Pass
T_03	Floating point input	78.5	Error Message: Input is not a valid integer	Error: Input is not a valid integer	Pass
T_04	Special character input	$	Error Message: Input is not a valid integer	Error: Input is not a valid integer	Pass
T_05	larger integer input value greater than the max integer value	78974564897	Error Message: Input value exceeds Integer	Error: Input is not a valid integer	Pass