

Aim:

In the town of Inputville, a thoughtful programmer named Alex is developing a program that requires the user to input an integer. Alex, foreseeing the possibility of users entering non-integer values, is committed to providing a seamless user experience. To achieve this, Alex is implementing a method that reads an integer n from the user and plans to handle the **InputMismatchException** gracefully in case a non-integer value is entered.

Can you assist Alex in creating this?

Constraint:

$$\bullet 0 \leq n \leq 10^{10}$$

Input Format:

The input line reads an integer.

Output Format:

The output line consists of the integer if the user entered an integer otherwise it will print the error message as **Error: enter a valid integer**.

Note: Use println() to print the output statements.

Source Code:

q22100/Main.java

```
package q22100;
// write your code here

import java.util.*;

public class Main {
    public static void main(String[] args) {
        // write your code for Scanner class
        Scanner sc = new Scanner(System.in);

        try {
            // write your code here
            int n = sc.nextInt();
            System.out.println(n);

        } catch (InputMismatchException e) {
            // write your code here
            System.out.println("Error: Please enter a valid integer");

        }

    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
123456
123456

Test Case - 2
User Output
12ea
Error: Please enter a valid integer