1. **HANDLING INPUTMISMATCH EXCEPTION :**

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

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

        try {
            // Prompting user to enter an integer
            System.out.println("Enter an integer:");
            int number = scanner.nextInt();
            System.out.println("You entered: " + number);
        } catch (InputMismatchException e) {
            System.out.println("Error: Please enter a valid integer.");
        }

        scanner.close();
    }
}
```

OUTPUT:

```
Enter an integer:
abc
Error: Please enter a valid integer.
```

2. **HANDLING NUMBERFORMATEXCEPTION AND NULLPOINTEREXCEPTION :**

```
import java.util.Scanner;

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

        try {
            // Prompting user to enter a string to convert to an integer
            System.out.println("Enter a number:");
            String input = scanner.nextLine();

            // Converting string to integer
            int number = Integer.parseInt(input);
            System.out.println("You entered: " + number);
        } catch (NumberFormatException e) {
            System.out.println("Error: Please enter a valid integer.");
        } catch (NullPointerException e) {
            System.out.println("Error: Null value encountered.");
        }

        scanner.close();
    }
}
```

OUTPUT:
Enter a number:
abc
Error: Please enter a valid integer.