

CONVERT_NUMBER

```
import java.util.Scanner;

public class IntegerConverter {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        boolean continueConversion = true;

        while (continueConversion) {

            boolean validInput = false;

            while (!validInput) {

                try {

                    // Prompt the user to enter a number as a string

                    System.out.print("Enter a number: ");

                    String userInput = scanner.nextLine();

                    // Attempt to convert the user input to an integer

                    int number = Integer.parseInt(userInput);

                    // If no exception occurs, display the converted integer

                    System.out.println("Converted number: " + number);

                    validInput = true; // Set validInput to true to exit the inner loop

                } catch (NumberFormatException e) {

                    // If NumberFormatException occurs (invalid number format), display error
message

                    System.out.println("Error: Invalid number format. Please enter a valid integer.");

                } catch (NullPointerException e) {

                    // If NullPointerException occurs (user input is null), display error message

                }

            }

        }

    }

}
```

```
        System.out.println("Error: Null input. Please enter a valid string.");
    }
}

// Ask the user if they want to convert another number
System.out.print("Do you want to convert another number? (yes/no): ");
String choice = scanner.nextLine();
continueConversion = choice.equalsIgnoreCase("yes");
}

scanner.close(); // Close the scanner to release resources
}
}
```

OUTPUT

Enter a number: 5

Converted number: 5

Do you want to convert another number? (yes/no): yes

Enter a number: t

Error: Invalid number format. Please enter a valid integer.

Enter a number: 10

Converted number: 10

Do you want to convert another number? (yes/no):