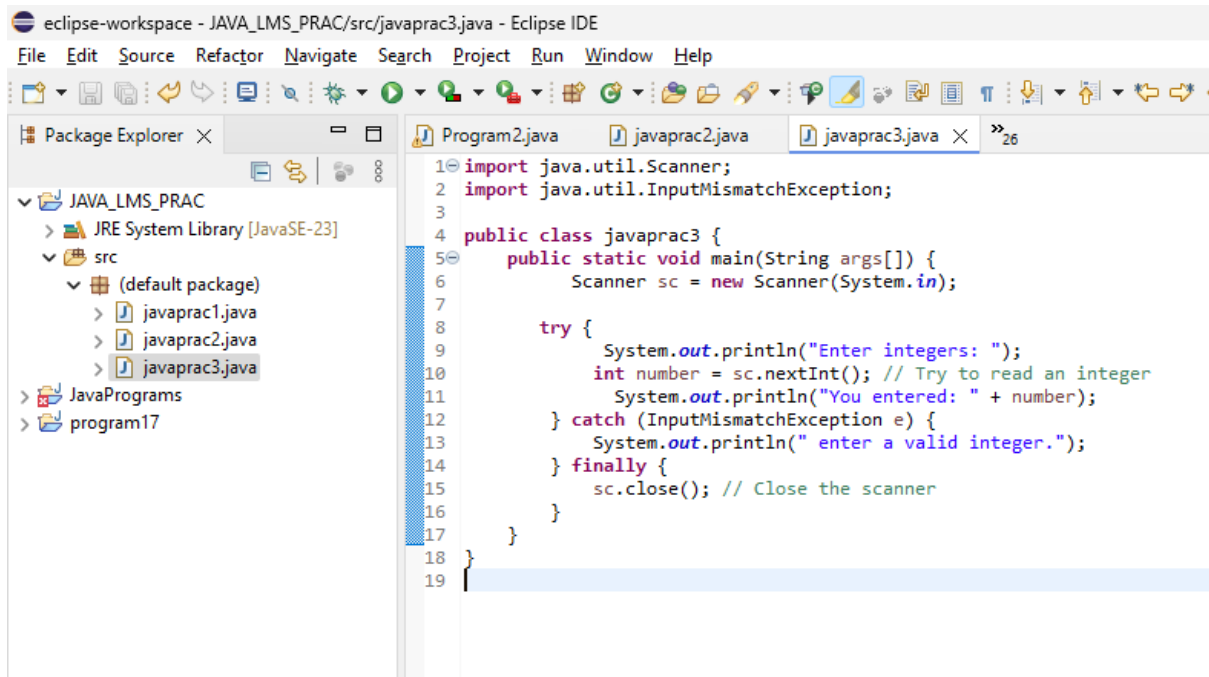


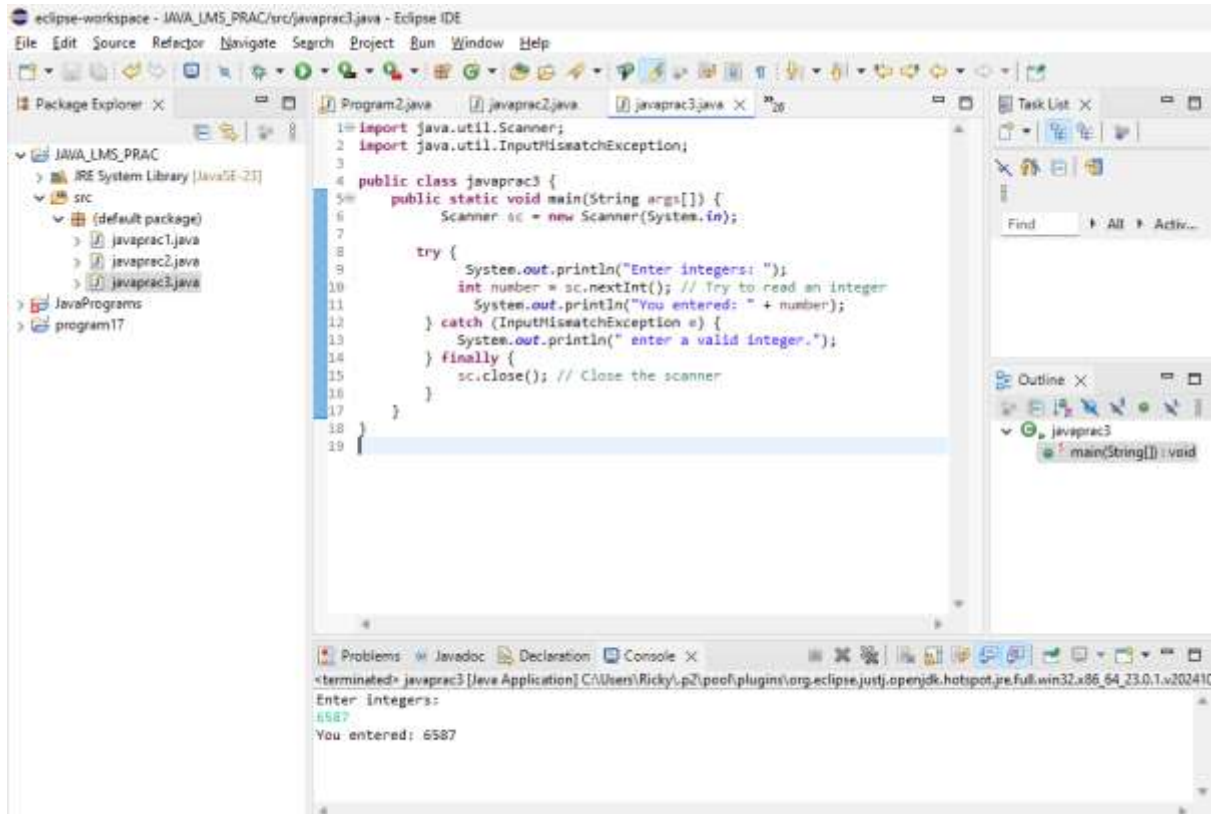
JAVA LMS LAB-2:

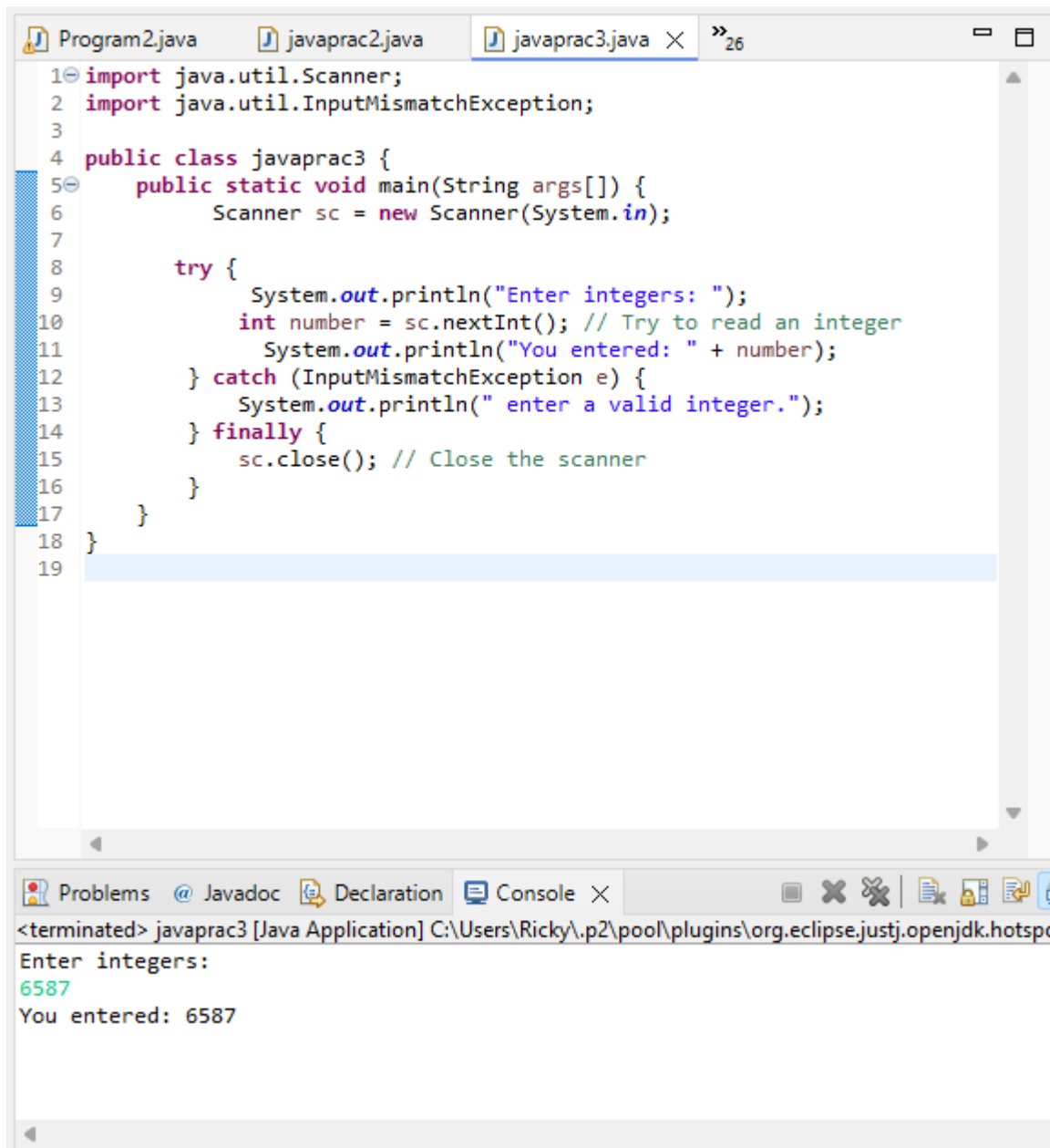
Write a program that prompts the user to enter an integer. Handle the `InputMismatchException` that might occur if the user enters a non-integer value.



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays the project structure: JAVA_LMS_PRAC, JRE System Library [JavaSE-23], src (default package), and three Java files: javaprac1.java, javaprac2.java, and javaprac3.java. The main editor window shows the code for javaprac3.java, which is a Java program that prompts the user to enter an integer and handles the `InputMismatchException`.

```
1 import java.util.Scanner;
2 import java.util.InputMismatchException;
3
4 public class javaprac3 {
5     public static void main(String args[]) {
6         Scanner sc = new Scanner(System.in);
7
8         try {
9             System.out.println("Enter integers: ");
10            int number = sc.nextInt(); // Try to read an integer
11            System.out.println("You entered: " + number);
12        } catch (InputMismatchException e) {
13            System.out.println(" enter a valid integer.");
14        } finally {
15            sc.close(); // Close the scanner
16        }
17    }
18 }
19 }
```





The screenshot shows the Eclipse IDE with three tabs: Program2.java, javaprac2.java, and javaprac3.java. The javaprac3.java tab is active, displaying the following code:

```
1 import java.util.Scanner;
2 import java.util.InputMismatchException;
3
4 public class javaprac3 {
5     public static void main(String args[]) {
6         Scanner sc = new Scanner(System.in);
7
8         try {
9             System.out.println("Enter integers: ");
10            int number = sc.nextInt(); // Try to read an integer
11            System.out.println("You entered: " + number);
12        } catch (InputMismatchException e) {
13            System.out.println(" enter a valid integer.");
14        } finally {
15            sc.close(); // Close the scanner
16        }
17    }
18 }
19
```

Below the code editor, the Console view is open, showing the output of the program:

```
<terminated> javaprac3 [Java Application] C:\Users\Ricky\AppData\Local\plugins\org.eclipse.justj.openjdk.hotspot
Enter integers:
6587
You entered: 6587
```

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

public class javaprac3 {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);

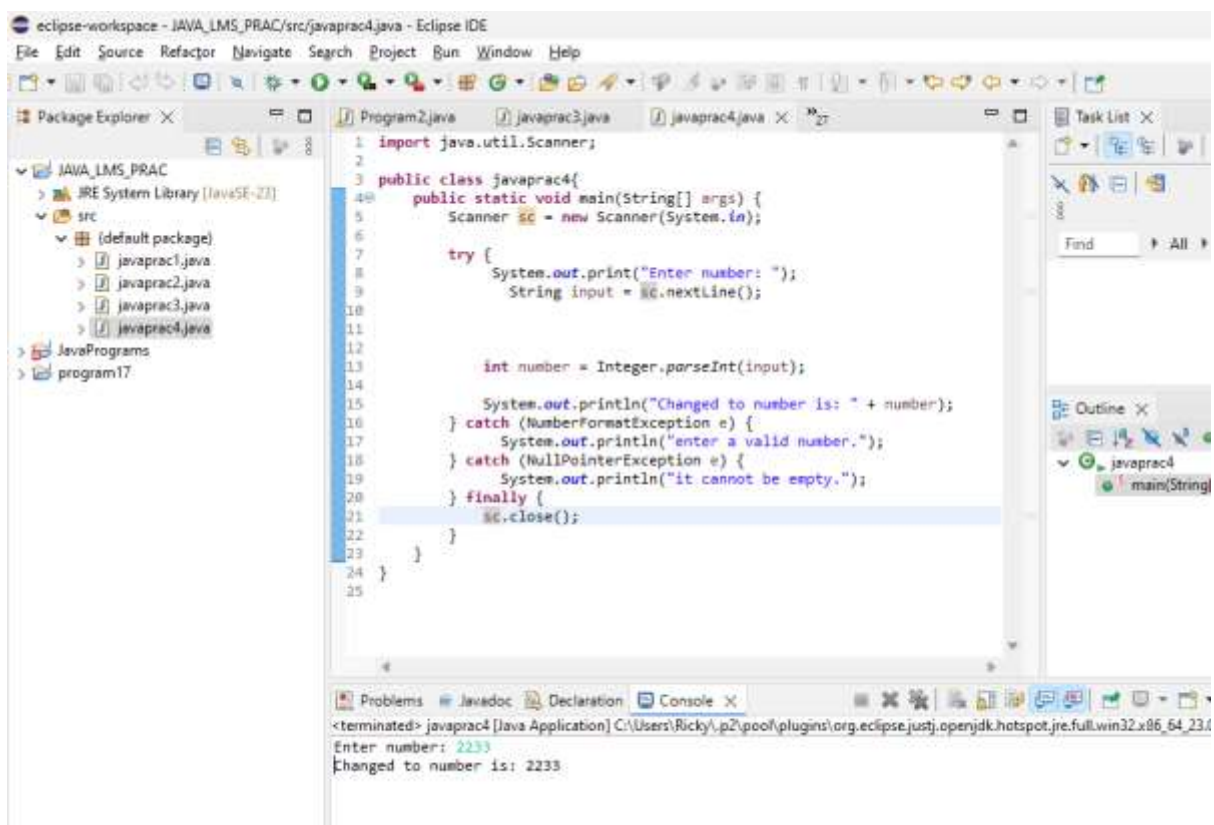
        try {
            System.out.println("Enter integers: ");
            int number = sc.nextInt(); // Try to read an integer
            System.out.println("You entered: " + number);
        } catch (InputMismatchException e) {
            System.out.println(" enter a valid integer.");
        } finally {
            sc.close(); // Close the scanner
        }
    }
}
```

```
}  
}  
}
```

Write a program that takes user input and converts it to an integer using

Integer.parseInt(). Handle the NumberFormatException and NullPointerException

that might occur during the conversion.

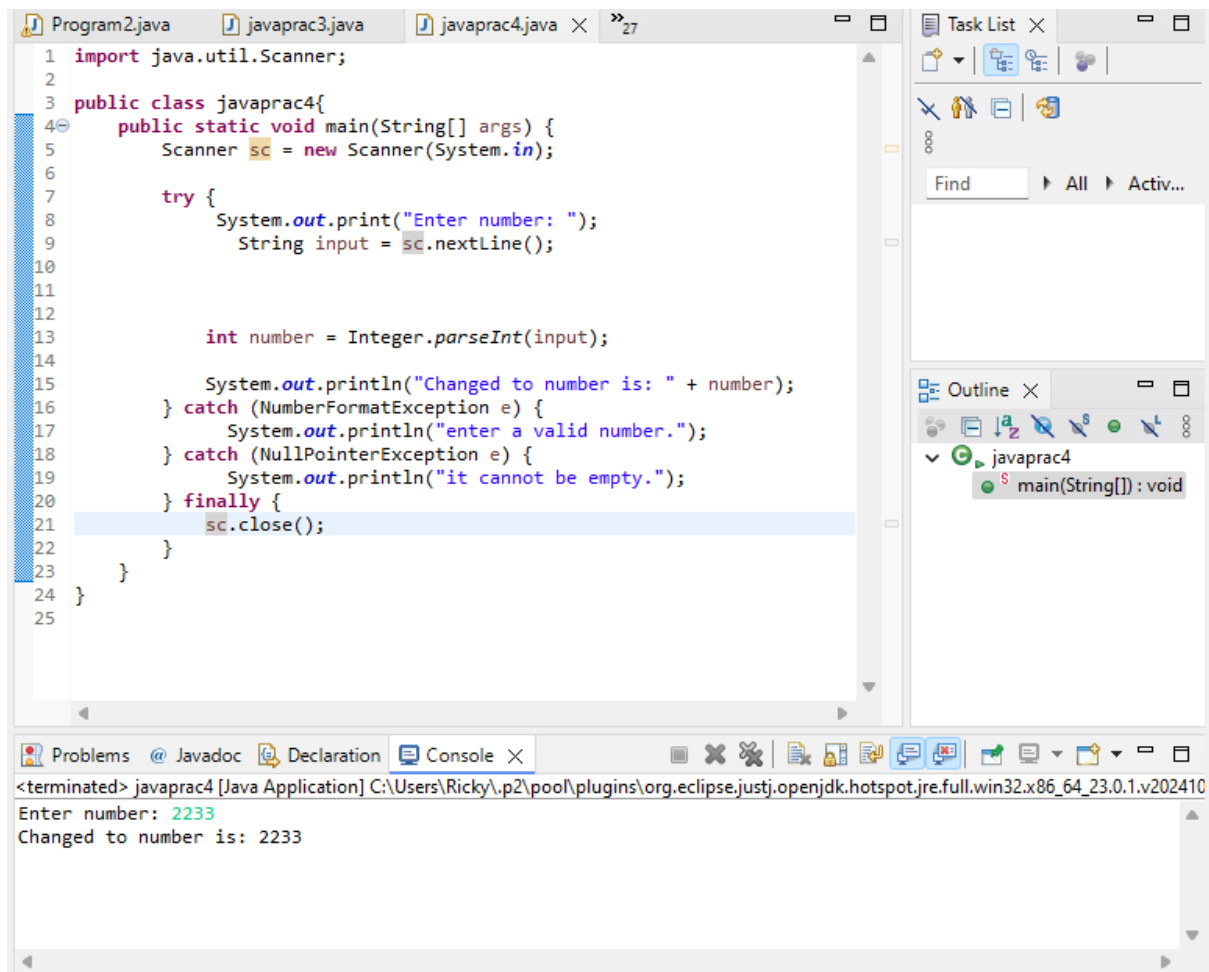


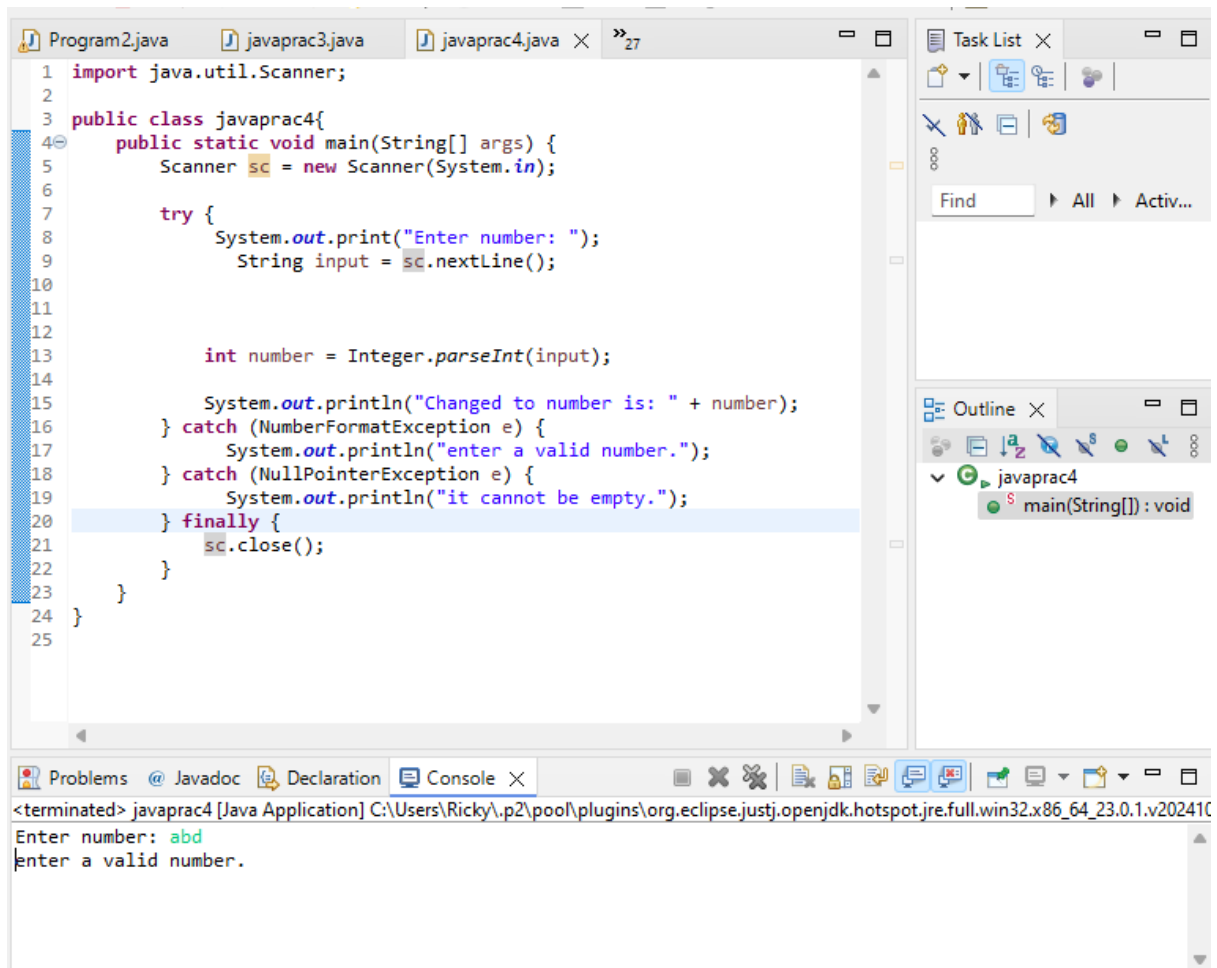
The screenshot shows the Eclipse IDE with a project named 'JAVA_LMS_PRAC'. The 'src' folder contains four Java files: 'javaprac1.java', 'javaprac2.java', 'javaprac3.java', and 'javaprac4.java'. The 'javaprac4.java' file is open in the editor, showing the following code:

```
1 import java.util.Scanner;  
2  
3 public class javaprac4 {  
4     public static void main(String[] args) {  
5         Scanner sc = new Scanner(System.in);  
6  
7         try {  
8             System.out.print("Enter number: ");  
9             String input = sc.nextLine();  
10  
11             int number = Integer.parseInt(input);  
12  
13             System.out.println("Changed to number is: " + number);  
14         } catch (NumberFormatException e) {  
15             System.out.println("enter a valid number.");  
16         } catch (NullPointerException e) {  
17             System.out.println("it cannot be empty.");  
18         } finally {  
19             sc.close();  
20         }  
21     }  
22 }  
23  
24 }  
25
```

The console output shows the program running successfully, taking the input '2233' and outputting 'Changed to number is: 2233'.

```
<terminated> javaprac4 [Java Application] C:\Users\Ricky\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_23.1  
Enter number: 2233  
Changed to number is: 2233
```





```
import java.util.Scanner;

public class javaprac4{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        try {
            System.out.print("Enter number: ");
            String input = sc.nextLine();


            int number = Integer.parseInt(input);

            System.out.println("Changed to number is: " + number);
        } catch (NumberFormatException e) {
            System.out.println("enter a valid number.");
        } catch (NullPointerException e) {
            System.out.println("it cannot be empty.");
        } finally {
            sc.close();
        }
    }
}
```

