

Assignment-1. create a custom exception class to check the number is non zero value. implement in a class which find square of given number.

Program:

```
package Exception_Handling;
import java.util.Scanner;

class NonZeroException extends Exception {
    public NonZeroException(String message) {
        super(message);
    }
}

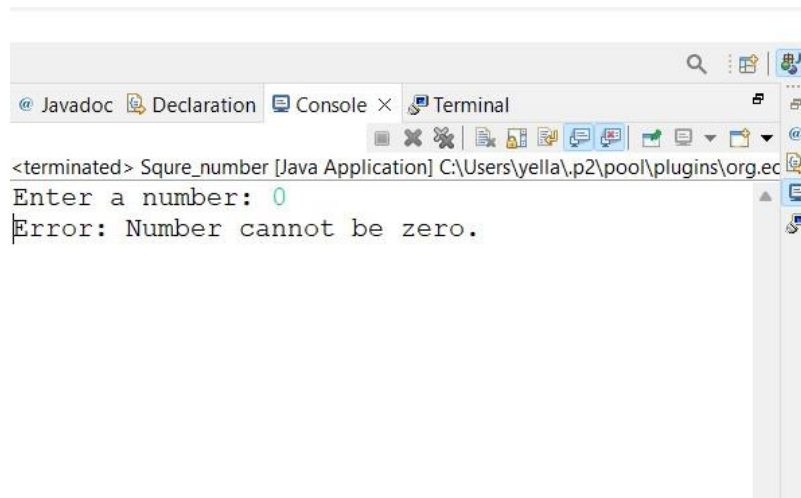
class Squarenumber {
    public int findSquare(int number) throws NonZeroException {
        if (number == 0) {
            throw new NonZeroException("Number cannot be zero.");
        }
        return number * number;
    }
}

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

        try {
            System.out.print("Enter a number: ");
            int n = scanner.nextInt();

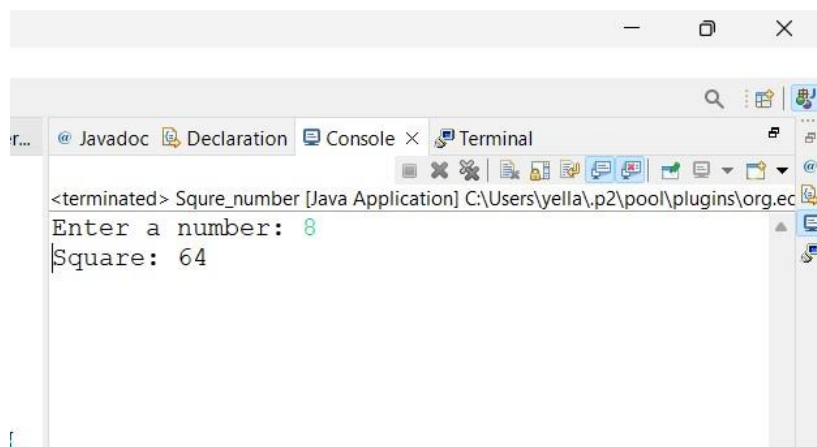
            int result = sc.findSquare(n);
            System.out.println("Square: " + result);
        }
        catch (NonZeroException e)
        {
            System.out.println("Error: " + e.getMessage());
        }
        finally
        {
            scanner.close();
        }
    }
}
```

Output:



A screenshot of an IDE terminal window. The terminal has tabs for '@ Javadoc', 'Declaration', 'Console', and 'Terminal'. The 'Terminal' tab is active. The text in the terminal reads: '<terminated> Squre_number [Java Application] C:\Users\yella\p2\pool\plugins\org.ec', followed by 'Enter a number: 0' on a new line, and 'Error: Number cannot be zero.' on the next line. The IDE interface includes a search bar and various tool icons at the top of the terminal panel.

```
<terminated> Squre_number [Java Application] C:\Users\yella\p2\pool\plugins\org.ec
Enter a number: 0
Error: Number cannot be zero.
```



A screenshot of an IDE terminal window, similar to the one above. The 'Terminal' tab is active. The text in the terminal reads: '<terminated> Squre_number [Java Application] C:\Users\yella\p2\pool\plugins\org.ec', followed by 'Enter a number: 8' on a new line, and 'Square: 64' on the next line. The IDE interface is consistent with the previous screenshot.

```
<terminated> Squre_number [Java Application] C:\Users\yella\p2\pool\plugins\org.ec
Enter a number: 8
Square: 64
```