

# Rajalakshmi Engineering College

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 8\_Q4

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

A local municipality is implementing an online voting system for a community event and wants to ensure that only eligible voters (those aged 18 or older) can participate.

Your task is to develop a program that validates the age of individuals attempting to vote online. If the user's age is below 18, the program should throw a custom exception, `InvalidAgeException`, preventing them from casting their vote. If the input is invalid, catch the appropriate `InputMismatchException` and print the in-built exception message.

##### ***Input Format***

The input consists of an integer representing the age.

##### ***Output Format***

If the age is 18 or older, print "Eligible to vote"

If the age is below 18, print "Exception occurred: InvalidAgeException: Age is not valid to vote"

If there is any other type of exception, print "An error occurred: " followed by the in-built exception message.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 20

Output: Eligible to vote

### **Answer**

```
// You are using Java
import java.util.Scanner;
import java.util.InputMismatchException;
class InvalidAgeException extends Exception {
    public InvalidAgeException() {
        super("Age is not valid to vote");
    }
}
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        try {
            int age = sc.nextInt();
            if (age < 18) {
                throw new InvalidAgeException();
            }
            System.out.println("Eligible to vote");
        } catch (InvalidAgeException e) {
            System.out.println("Exception occurred: " + e.getClass().getSimpleName()
+ ": " + e.getMessage());
        } catch (InputMismatchException ime) {
            System.out.println("An error occurred: " + ime.toString());
        } catch (Exception e) {
            System.out.println("An error occurred: " + e.toString());
        }
    }
}
```

```
        } finally {  
            sc.close();  
        }  
    }  
}
```

**Status : Correct**

**Marks : 10/10**