

# Rajalakshmi Engineering College

Name: Shreenidhi T  
Email: 240701503@rajalakshmi.edu.in  
Roll no: 240701503  
Phone: 9150942326  
Branch: REC  
Department: CSE - Section 10  
Batch: 2028  
Degree: B.E - CSE

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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.InputMismatchException;

import java.util.Scanner;

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

```
class VotingEligibility {  
    public static void validateAge(int age) throws InvalidAgeException {  
        if (age < 18) {  
            throw new InvalidAgeException("Age is not valid to vote");  
        }  
    }  
}
```

```
public static void main(String[] args) {  
    Scanner scanner = new Scanner(System.in);  
    try {  
        int age = scanner.nextInt();  
        validateAge(age);  
        System.out.println("Eligible to vote");  
    } catch (InvalidAgeException e) {  
        System.out.println("Exception occurred: InvalidAgeException: " +  
e.getMessage());  
    }  
}
```

```
} catch (InputMismatchException e) {  
    System.out.println("An error occurred: " + e.getClass().getName());  
} catch (Exception e) {  
    System.out.println("An error occurred: " + e.getMessage());  
} finally {  
    scanner.close();  
}  
}  
}
```

**Status :** Correct

**Marks :** 10/10