

# Rajalakshmi Engineering College

Name: Shane A  
Email: 241501197@rajalakshmi.edu.in  
Roll no: 241501197  
Phone: 8300409580  
Branch: REC  
Department: AI & ML - Section 1  
Batch: 2028  
Degree: B.E - AI & ML

Scan to verify results



## 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.*;
```

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

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

```
        catch (Exception e) {  
            System.out.println("An error occurred: " + e);  
        }  
    }  
  
    static void validateAge(int age) throws InvalidAgeException {  
        if (age < 18) {  
            throw new InvalidAgeException("Age is not valid to vote");  
        }  
    }  
}
```

**Status :** Correct

**Marks :** 10/10