

# Rajalakshmi Engineering College

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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**

```
import java.util.Scanner;
class Main {
    static void validate(int age) throws InvalidAgeException {
        if (age < 18) {
            throw new InvalidAgeException("Age is not valid to vote");
        } else {
            System.out.println("Eligible to vote");
        }
    }
}

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

    try {
        int userAge = scanner.nextInt();

        validate(userAge);
    } catch (InvalidAgeException ex) {
        System.out.println("Exception occurred: " + ex);
    } catch (Exception ex) {
        System.out.println("An error occurred: " + ex);
    } finally {
        scanner.close();
    }
}
```

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

**Status :** Correct

**Marks : 10/10**