

# 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***

```
import java.util.Scanner;
import java.util.InputMismatchException;

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

class AgeValidator {
    public static void validate(int age) throws InvalidAgeException {
        if (age < 18) {
            throw new InvalidAgeException("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();
            AgeValidator.validate(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);
        } catch (Exception e) {
            System.out.println("An error occurred: " + e);
        }
    }
}
```

**Status :** Correct

**Marks :** 10/10