

# 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);
    }
}

public class Main{

    //use static keyword, else u have to create obj in main
    static void Age(int age) throws InvalidAgeException{
        if(age<18){
            throw new InvalidAgeException(
                "Exception occurred: InvalidAgeException: Age is not valid to vote"
            );
        }
    }

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

        //put the age input inside the tri block, otherwise we cannot catc h
```

```
//the input mismatch exception in block
try{
    int age=scanner.nextInt();
    Age(age);
    System.out.println("Eligible to vote");
}catch(InvalidAgeException e){
    System.out.println(e.getMessage());
}catch(InputMismatchException e){
    System.out.println("An error occurred: java.util.InputMismatchException");
}finally{
    scanner.close();
}
}
```

**Status :** Correct

**Marks :** 10/10