

# Rajalakshmi Engineering College

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Branch: REC

Department: AI & DS - Section 5

Batch: 2028

Degree: B.E - AI & DS

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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.*;
class InvalidAgeException extends Exception{
    InvalidAgeException(String a)
    {
        super(a);
    }
}
class Main{
    static int check(int a) throws InvalidAgeException,Exception
    {
        int f=1;

        if((a)<18)
        {
            f=0;
            throw new InvalidAgeException("Age is not valid to vote");
        }

        return f==1?1:0;
    }
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
```

```
try{
    int a=sc.nextInt();
    int r=check(a);
    if(r==1)
    {
        System.out.println("Eligible to vote");
    }
}
catch(InvalidAgeException e)
{
    System.out.println("Exception occurred: "+e);
}
catch(Exception e)
{
    System.out.println("An error occurred: "+ e);
}
}
```

**Status :** Correct

**Marks :** 10/10