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OOP Practical 14

Problem : Person has attributes name, age and a method to verify his age for voting which will throw an exception if he/she is under-aged (i.e. less than 18) for voting. In such case, application class must handle the exception. If age is more than or equal to 18, the program will run smoothly.

Code :

```
package Hare_Krishna;
import java.util.Scanner;

class Underage extends Exception
{
    Underage(String err)
    {
        System.out.println(err);
    }
}

public class Prac_14
{
    public static void main(String... s) throws Underage
    {
        Scanner scnr = new Scanner(System.in);
        System.out.println("\nEnter you details for check voting eligibility : ");
        System.out.print("\n\tName : ");
        String name = scnr.nextLine();
        System.out.print("\n\tAge : ");
        int age = scnr.nextInt();
        System.out.println();
        if(age>18)
        {
            System.out.println("You are eligible to vote in India!");
        }
        else
        {
            throw new Underage("Oops! You are not eligible to vote!");
        }
    }
}
```

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Output :

```
package Hare_Krishna;
import java.util.Scanner;

class Underage extends Exception {
    Underage(String err) {}
    System.out.println(err);
}

public class Prac_14 {
    public static void main(String... s) throws Underage {
        Scanner scnr = new Scanner(System.in);
        System.out.println("\nEnter you details for check voting eligibility : ");
        System.out.print("\n\tName : ");
        String name = scnr.nextLine();
        System.out.print("\n\tAge : ");
        int age = scnr.nextInt();
        System.out.println();
        if (age > 18) {
            System.out.println("You are eligible to vote in India!");
        } else {
            throw new Underage("err: \"Oops! You are not eligible to vote\"");
        }
    }
}
```

Run: Prac_14 (3)

```
/usr/lib/jvm/default/bin/java
-javaagent:/usr/share/idea/lib/idea_rt
-jar=34755:/usr/share/idea/bin -Dfile.encoding=UTF-8
-classpath /home/yash/Documents/sem3practicals/OOP/Hare_Krishna/bin/production/Hare_Krishna:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk8/1.7.10/kotlin-stdlib-jdk8-1.7.10.jar:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib/1.7.10/kotlin-stdlib-1.7.10.jar:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-common/1.7.10/kotlin-stdlib-common-1.7.10.jar:/home/yash/.m2/repository/org/jetbrains/annotations/13.0/annotations-13.0.jar:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk7/1.7.10/kotlin-stdlib-jdk7-1.7.10.jar Hare_Krishna.Prac_14

Enter you details for check voting eligibility :

Name : Yash

Age : 20

You are eligible to vote in India!

Process finished with exit code 0
```

```
package Hare_Krishna;
import java.util.Scanner;

class Underage extends Exception {
    Underage(String err) {}
    System.out.println(err);
}

public class Prac_14 {
    public static void main(String... s) throws Underage {
        Scanner scnr = new Scanner(System.in);
        System.out.println("\nEnter you details for check voting eligibility : ");
        System.out.print("\n\tName : ");
        String name = scnr.nextLine();
        System.out.print("\n\tAge : ");
        int age = scnr.nextInt();
        System.out.println();
        if (age > 18) {
            System.out.println("You are eligible to vote in India!");
        } else {
            throw new Underage("err: \"Oops! You are not eligible to vote\"");
        }
    }
}
```

Run: Prac_14 (4)

```
/usr/lib/jvm/default/bin/java
-javaagent:/usr/share/idea/lib/idea_rt
-jar=37683:/usr/share/idea/bin -Dfile.encoding=UTF-8
-classpath /home/yash/Documents/sem3practicals/OOP/Hare_Krishna/bin/production/Hare_Krishna:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk8/1.7.10/kotlin-stdlib-jdk8-1.7.10.jar:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib/1.7.10/kotlin-stdlib-1.7.10.jar:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-common/1.7.10/kotlin-stdlib-common-1.7.10.jar:/home/yash/.m2/repository/org/jetbrains/annotations/13.0/annotations-13.0.jar:/home/yash/.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk7/1.7.10/kotlin-stdlib-jdk7-1.7.10.jar Hare_Krishna.Prac_14

Enter you details for check voting eligibility :

Name : Yash

Age : 17

Oops! You are not eligible to vote!
Exception in thread "main" Hare_Krishna.Underage: err: "Oops! You are not eligible to vote"
    at Hare_Krishna.Prac_14.main(Prac_14.java:29)

Process finished with exit code 1
```