Chapter 14 Nested Try Catch in Java by Munawar

Nested Try Catch

We can nest multiple try catch blocks as follows.

Try {

// code to try

}

Try {

// code

}{---------- > Nested try Catch blocks

Catch (Exception e) {

// code

}

Catch (Exception e)

// code if exception

}

Similarly, we can further nest try catch blocks inside the nested try catch blocks.

Quick Quiz

Write a java program that allows you to keep accessing an array until a valid index is given by the user.

```
int [] marks=new int[3];
marks[0]=7;
marks[1]=10;
```

```
marks[2]=20;

Scanner sc=new Scanner(System.in);
boolean answer=true;
while (answer) {
    int index = sc.nextInt();
    try {
        System.out.println("Welcome to lecture 82");
        try {
            System.out.println(marks[index]);
            answer=false;
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("Sorry this index does not exists");
            System.out.println("Exception in level 2");
        }
    } catch (Exception e) {
        System.out.println("Exception in level 1");
    }
    System.out.println("Try Exception is Complete");
}
```

Source Code

```
import java.util.Scanner;

public class Errors_Java {
    public static void main(String[] args) {

        int [] marks=new int[3];
        marks[0]=7;
        marks[1]=10;
        marks[2]=20;

        Scanner sc=new Scanner(System.in);
        boolean answer=true;
        while (answer) {
            int index = sc.nextInt();
            try {
                System.out.println("Welcome to lecture 82");
                try {
                    System.out.println(marks[index]);
                    answer=false;
                } catch (ArrayIndexOutOfBoundsException e) {
                    System.out.println("Sorry this index does not exists");
                    System.out.println("Exception in level 2");
                }
            } catch (Exception e) {
                System.out.println("Exception in level 1");
            }
            System.out.println("Try Exception is Complete");
        }


//        int [] marks=new int[3];
```

```
//         marks[0]=7;
//         marks[1]=10;
//         marks[2]=20;
//
//         Scanner sc=new Scanner(System.in);
//         int index=sc.nextInt();
//         try {
//             System.out.println("Welcome to lecture 82");
//             try {
//                 System.out.println(marks[index]);
//             }
//             catch (ArrayIndexOutOfBoundsException e){
//                 System.out.println("Sorry this index does not exists");
//                 System.out.println("Exception in level 2");
//             }
//         }
//         catch (Exception e){
//             System.out.println("Exception in level 1");
//         }

    }
}
```

Thank You