## **Practical No: 20**

# AIM: - Write a java program for creating a single try block with multiple catch blocks.

```
Main iava
                                                                                                · Al NEW JAVA ✓ RUN ►
1 import java.util.*;
2 import java.lang.*;
                                                                            99
4 public class Main {
                                                                           Output:
5 -
    public static void main(String[] args) {
                                                                           99 is a factor of 99
6
           Scanner sc = new Scanner(System.in);
7 -
           try {
              int n = sc.nextInt();
9
10-
               if (99 % n == 0) {
                   System.out.println(n+" is a factor of 99");
11
          }
13
          catch (ArithmeticException ex) {
14-
              System.out.println("Arithmetic : " + ex);
16
           catch (NumberFormatException ex) {
18
             System.out.println("Number : " + ex);
19
20
       }
21 }
```

## **Practical No: 21**

AIM: - Write a program for multiple try blocks and multiple catch blocks including finally.

```
Main.java
             +
1 import java.lang.*;
   import java.util.*;
4- public class Main{
     public static void main(String[] args){
       int arr[] = new int[5];
6
7
       try{
8.
         //nested try
9
         try{
10 -
           System.out.println("Divide : 1");
11
           int b = 23 / 0;
12
13
14
         catch(ArithmeticException e){
15.
           System.out.println(e);
16
17
18
         try{
19 -
           arr[7] = 10;
20
21
           int c = 22/0;
           System.out.println("Divide 2 : " +c);
22
23
24
         catch(ArithmeticException e){
25 -
           System.out.println("Error : Divide by 0");
26
27
28
         catch(ArrayIndexOutOfBoundsException ex){
29 -
30
           //ignored
           System.out.println("Error : Array Out Of Bound!");
31
32
33
34
       catch(Exception e){
35 *
         System.out.println("Handled!");
36
37
38
39 }
```



### **Practical No: 22**

### AIM: - Write a program to create user defined exceptions.

```
Main.java
 1 //Lab No : 22
 2 import java.util.*;
                                                                         Input for the program (Optional)
3 import java.lang.*;
5 class MyException extends Exception{
                                                                       Found & Caught Sucessfully!
     public MyException(String s){
                                                                       User-Algorithms!
        //call constructor of parent Exception!
8
       super(s);
9
10 }
11
12
13 - public class Main {
14-
       public static void main(String[] args) {
15.
          try{
             /throw an object of user defined Exception
16
            throw new MyException("User-Algorithms!");
18
19
20-
          catch (MyException ex){
21
            System.out.println("Found & Caught Sucessfully!");
22
            //print th message from MyException object
            System.out.println(ex.getMessage());
23
24
25
     }
26 }
```