Practical No: 20

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

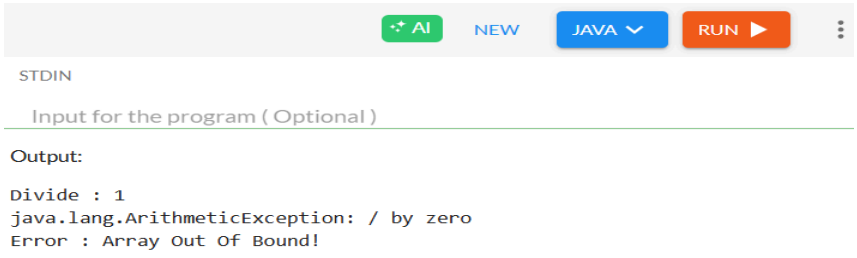

```java
import java.util.*;
import java.lang.*;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        try {
            int n = sc.nextInt();

            if (99 % n == 0) {
                System.out.println(n+" is a factor of 99");
            }
        }
        catch (ArithmeticException ex) {
            System.out.println("Arithmetic : " + ex);
        }
        catch (NumberFormatException ex) {
            System.out.println("Number : " + ex);
        }
    }
}
```

Practical No: 21

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

Main.java +

```java
import java.lang.*;
import java.util.*;

public class Main{
  public static void main(String[] args){
    int arr[] = new int[5];

    try{
      //nested try
      try{
        System.out.println("Divide : 1");
        int b = 23 / 0;
      }

      catch(ArithmeticException e){
        System.out.println(e);
      }

      try{
        arr[7] = 10;
        int c = 22/0;
        System.out.println("Divide 2 : " +c);
      }

      catch(ArithmeticException e){
        System.out.println("Error : Divide by 0");
      }

      catch(ArrayIndexOutOfBoundsException ex){
        //ignored
        System.out.println("Error : Array Out Of Bound!");
      }
    }

    catch(Exception e){
      System.out.println("Handled!");
    }
  }
}
```



Practical No: 22

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