



V.T Patel Department of Electronics & CommunicationEngineering

Part-VIII Exception Handling

Practical No: 35

AIM: WAP to show the try-catch block to catch the different types of exceptions.

Solution

Practical35.java

```
package com.jayshil.javaapp;
import java.io.*;
public class Practical35 {
 public static void main(String[] args) {
    int a = 5, b = 0;
       System.out.println("a/b = "+a/b);
    catch (ArithmeticException e) {
       System.out.println("Arithmetic Exception occurred");
    int[] Array = new int[5];
       System.out.println(Array[7]);
    catch (ArrayIndexOutOfBoundsException e) {
       System.out.println("Array Index Out of Bounds Exception");
 ******************
```





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```
try {
  Class.forName("MyclassC");
catch (ClassNotFoundException e) {
  System.out.println("Class Not Found Exception");
  File file = new File("myFile");
  FileInputStream fis = new FileInputStream(file);
  System.out.println("Hello");
catch (FileNotFoundException e) {
   System.out.println("File Not Found Exception");
String str = "Jayshil";
   System.out.println(str.charAt(9));
catch (StringIndexOutOfBoundsException e)
  System.out.println("String index out of bound exception");
```

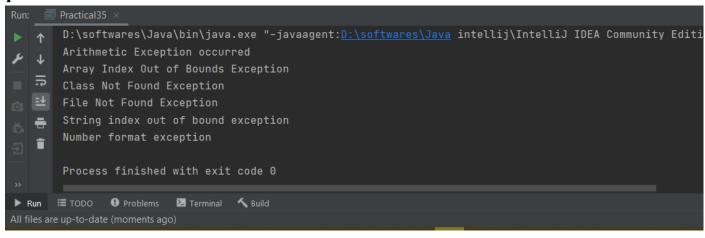




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Output

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Practical No: 36

AIM: WAP to generate user defined exception using "throw" and "throws" keyword.

Solution

Practical36.java

```
package com.jayshil.javaapp;
import java.util.Scanner;
class InvalidAgeException extends Exception{
 InvalidAgeException(String s){
    super(s);
public class Practical36 {
 static void validate(int age)throws InvalidAgeException{
    if(age<18)
       throw new InvalidAgeException("not valid");
    else
       System.out.println("welcome to vote");
 public static void main(String args[]) {
    Scanner myObj = new Scanner(System.in);
    System.out.println("Enter Your age :");
    int number = myObj.nextInt();
    try{
       validate(number);
     }catch (Exception m) {System.out.println("Exception occured: "+m);}
    System.out.println("rest of the code...");
```

Output



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Practical No: 37

AIM: Write a program that raises two exceptions. Specify two 'catch' clauses for the two exceptions. Each 'catch' block handles a different type of exception. For example the exception could be 'ArithmeticException' and 'ArrayIndexOutOfBoundsException'. Display a message in the 'finally' block.

Solution

Practical37.java

```
package com.jayshil.javaapp;
import java.util.InputMismatchException;
import java.util.Scanner;
public class Practical37 {
 public static void main(String[] args) {
     Scanner Input_obj = new Scanner(System.in);
     System.out.println("Enter a number: ");
     try {
        int number1 = Input obj.nextInt();
        int number2 = 100/number1;
        System.out.println("Answer is "+number2);
     catch (InputMismatchException E) {
        System.out.println("Input Mismatch exception generated");
     catch (ArithmeticException AE) {
        System.out.println("Arithmetic Exception occured");
     finally {
        System.out.println("The code ends.");
```



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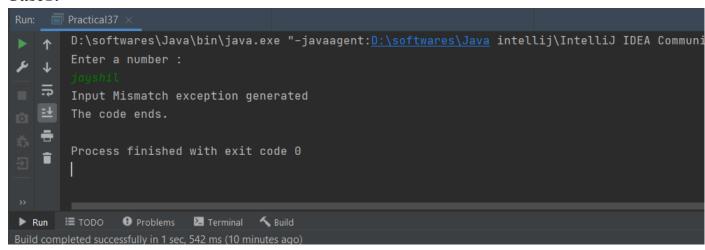


Output:-

There will be 3 scenarios:-

- When Input is a string then Input Mismatch Exception Occurs
- When Input is "0" then the Arithmetic exception occurs
- When Input is an integer then we will get the output as desired

Case1:-



Case2:-







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Case3:-

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