Date = 9/05/22 Name: Raghan Mahashidani Romal: A Lab Assignment - 8 (JP) White a Java program to showcase use of multi-threading and Ecoption Handling in Java. Objective: Understand different types of exceptions Exception Houndling using various Exception classes. 1. What is Exceptions hamdling. And The Exception handling in Java- is one the poward mechanism to handle suntime evocous so that normal flow of application can be maintained. 2. Exception Handling mechanism in Jong. In Java there sono 2 types of exception in jova je. Onecked and unchacked exceptions. In Jova, there are class dedicated for exception handling. Jova uses by-catch block you exception handling. Therosolde class is superclass of exception class.

3. Types of Exception classes The Built In Exception classes also i) Asuthmetic Exception Asviay Index Out of Bounds Exception. 10) iii) class Not found Exception. iv) IO Exception FIRNOT found Exception-U) vi) Into sompted Exception. (5i) NO Such field Exception. NO Such mothed exception. Unij NULL POINTER Exception. (x) x) Number format Exception. (xi) Runtino Exception. Xii) Storing Index Out of Bound Exception * Platjosum? Open source Java Rongeramming tool like Eclipse Editor, Netbeans * Conclusion: Thus, studied exception handling concepts in Janas AT FAG What is the difference between course and exception?

DATE: / / Esosos Exception by envisionment in which exp-lication is Dumning. -> Exceptions one cannot by code of application itself. > Its not possible to se caves - The use of Jay - cutch blocks can handle exception and Ducover yearles no mary application from themhence classified as "unchecked!--> Exceptions can be "Checked" 800 "unchecked". of 2 white you exampled you checked and unchecked exception? And checked Exceptions: is Close Not found Exception iv IDException iii) SQL Exception Uncharked Exception 1) Asithmetic Exception ii) Alvay store Exception iii) Uss Cost Exception \$3 hihat age the different beywoods in Exception handling in Japa? Ans Exception bandling in Java is managed by five pegwoods try, catch, throw, throws finally.

of 4 what is the difference between therows of And The therough key world is used you a mos used to declare which exception can be + a method. The therow keyword is used in a to explicitly therow an exception within code. Q5 can we have toy without eatch block ! And you with is possible for toy block with a sit can also be followed by finally block. Jeen por

CODE:

```
import java.util.*;
public class javalab8{
public static void main(String[] args)
Scanner sc=new Scanner(System.in);
System.out.println("Enter 2 numbers");
try
int num1=sc.nextInt();
int num2=sc.nextInt();
System.out.println("Division is = "+(num1/num2));
throw new ArithmeticException();
}
/*catch(ArithmeticException e)
{
System.out.println("Divivde by zero"+e);
}
```

```
*/
catch(InputMismatchException e)
{
System.out.println("Enter a valid integer"+e);
}
catch(IndexOutOfBoundsException e)
{
System.out.println("Array out of bound"+e);
}
catch(Exception e)
{
System.out.println("Divide by zero"+e);
}
finally
System.out.println("The further Program");
}
```

Case 1:

```
Enter 2 numbers
21
0
Divivde by zerojava.lang.ArithmeticException: / by zero
The further Program

...Program finished with exit code 0
Press ENTER to exit console.
```





