Java Programming [CSE201] Enrolment No.:23DCS002

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

**DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY & RESEARCH**

Department of Computer Science & Engineering

Subject Name: Java Programming

Semester: 3rd

Subject Code: CSE201

Academic year: 2024-25

Part - 5

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| **No.** | **Exception Handling** |
| 24. | Write a java program which takes two integers x & y as input, you have to compute x/y. If x and y are not integers or if y is zero, exception will occur and you have to report it.  **PROGRAM CODE:**  import java.util.Scanner;  class calculate  {      void divide(int a,int b)      {          int c;          try {              c=a/b;              System.out.println("Division = " + c);          } catch (Exception e) {              System.out.println("Dividing By Zero Is Invalid");          }      }  }  public class prec24{      public static void main(String[] args) {          calculate c = new calculate();          int a,b;          Scanner s=new Scanner(System.in);          System.out.println("Enter 2 Number : ");          a=s.nextInt();          b=s.nextInt();          c.divide(a, b);      }  }  **OUTPUT:**    **CONCLUSION:** Learnt about the Exception and basics of it. |
| 24 | **PRACTICE PROGRAM:**  **1.**  public class error {      public static void main(String[] args) {          // int a = 3, b = 0, c;          // System.out.println("before");          // try {          // c = a / b;          // } catch (Exception e) {          // System.out.println("Exception resolved ");          // System.out.println(e.toString());          // System.out.println(e.getMessage());          // e.printStackTrace();          // }          // System.out.println("After");          int a[] = { 0, 1, 2 };          try {              System.out.println(a[3]);          } catch (Exception e) {              System.out.println("handeld" + e);          }          String s = "Charusat";          try {              System.out.println(s.charAt(9));          } catch (Exception e) {              System.out.println("Handeled" + e);          }          String s1 = null;          try          {              System.out.println(s1.length());          }          catch(Exception e)          {              System.out.println("handeled" + e);          }      }  }  **2.**  public class exception {      public static void main(String[] args) {          // int a[] = { 0, 1, 2 };          // try {          // System.out.println(a[3]);          // }          // catch(ArrayIndexOutOfBoundsException ab)          // {          // System.out.println("hello");          // }catch (Exception e) {          // System.out.println("handeld" + e);          // }          int a = 3, b = 0, c, arr[] = { 0, 1, 2 };          String s = "Charusat";          String s1 = null;          // try {          // c = a / b;          // System.out.println(arr[3]);          // System.out.println(s.charAt(9));          // System.out.println(s1.length());          // } catch (ArrayIndexOutOfBoundsException e) {          // System.out.println("Array");          // } catch (StringIndexOutOfBoundsException e) {          // System.out.println("String");          // } catch (ArithmeticException e) {          // System.out.println("Arithmetic");          // } catch (NullPointerException e) {          // System.out.println();          // }          try {              try {                  c = a / b;              } catch (ArithmeticException e) {                  System.out.println("Arithmetic");              }              try {                  System.out.println(arr[3]);              } catch (ArrayIndexOutOfBoundsException e) {                  System.out.println("Array");              }              try {                  System.out.println(s.charAt(9));              } catch (StringIndexOutOfBoundsException e) {                  System.out.println("String");              }              try {                  System.out.println(s1.length());              } catch (NullPointerException e) {                  System.out.println("null");              }          } catch (Exception e) {              System.out.println("Anything ");          }      }  } |