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/*NAME:AVHAD GAURI ADINATH
AIM:Implment a program to handle arithmatic  exception , array index out of
bounds exception..*/


import java.util.Scanner;

public class MyException
      {
            public static void main(String[]args)
            {
                  int num1,num2;
                  int index;
                  int x[]= {33,5,66};
                  Scanner sc = new Scanner (System.in);
                  int n;
                  do {
                        System.out.println("\nMenu \n Enter the Choice to
checktype of error"
                                    +"\n1 Arithematicexception"
                                    +"\n2 ArryOutOfBound"
                                    +"\n3 Exit");
                        n=sc.nextInt();
                        switch(n)
                        {
                        case 1:
                              try {
                                    System.out.println("Enter Number 1::");
                                    num1 = sc.nextInt();
                                    System.out.println(" Enter The Number
2::");
                                    num2 = sc.nextInt();
                                    double c= num1/num2;
                                    System.out.println("num1/num2 = "+c);

                              }
                              catch(ArithmeticException e)
                              {
                                    System.out.println("Divide by zero
error");}
                                    catch (Exception e)
                                    {
                                          System.out.println(e);
                                    }
                                    break;
                                    case 2:
                                          try
                                          {
                                                System.out.println("Enter arry
index::");
                                                index = sc.nextInt();
                                                System.out.println("x["
+index+"]="+x[index]);

                                          }
                                          catch(ArrayIndexOutOfBoundsException
e)
                                          {
                                                System.out.println("array index
out of bound exception");

                                          }
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                                        catch(Exception e)
                                        {
                                              System.out.println("Unknown
error");
                                              System.out.println(e);

                                        }
                                        break;
                                  case 3:
                                        System.out.println("Exiting the
program");
                                        System.exit(0);
                                        default:
                                              System.out.println("INVALID
INPUT!!!");
                                  }
                                  }while(true);


                            }
      }
```

OUTPUT:>

```
menu
 Enter the Choice to checktype of error
1 Arithematicexception
2 ArryOutOfBound
3 Exit
1
Enter Number 1::
100
 Enter The Number 2::
50
num1/num2 = 2.0

Menu
 Enter the Choice to checktype of error
1 Arithematicexception
2 ArryOutOfBound
3 Exit
2
Enter arry index::
0
x[0]=33

Menu
 Enter the Choice to checktype of error
1 Arithematicexception
2 ArryOutOfBound
3 Exit
2
Enter arry index::
2
```

```
x[2]=66

Menu
 Enter the Choice to checktype of error
1 Arithematicexception
2 ArryOutOfBound
3 Exit
3
Exiting the program
```