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1  /* PRACTICAL13: Write a program in Java to develop user defined exception for 'Divide by Zero' error.
2
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6
7  // CODE:
8
9  class DivideByZeroException extends Exception
10 {
11     public DivideByZeroException(String message)
12     {
13         super(message);
14     }
15 }
16
17 public class practical13
18 {
19     public static void main(String[] args)
20     {
21         try
22         {
23             int result = divide(10, 0);
24             System.out.println("Result: " + result);
25         }
26         catch (DivideByZeroException e)
27         {
28             System.err.println("Error: " + e.getMessage());
29         }
30     }
31
32     public static int divide(int numerator, int denominator) throws DivideByZeroException
33     {
34         if (denominator == 0)
35         {
36             throw new DivideByZeroException("Division by zero is not allowed.");
37         }
38         return numerator / denominator;
39     }
40 }
```