

NAME – RAJDEEP JAISWAL

DATE – 31 Oct 2021

BRANCH – BTECH CSE

SEC = 13 A

UID -20BCS2761

Subject – Java Lab

1. Aim/Overview of the practical:

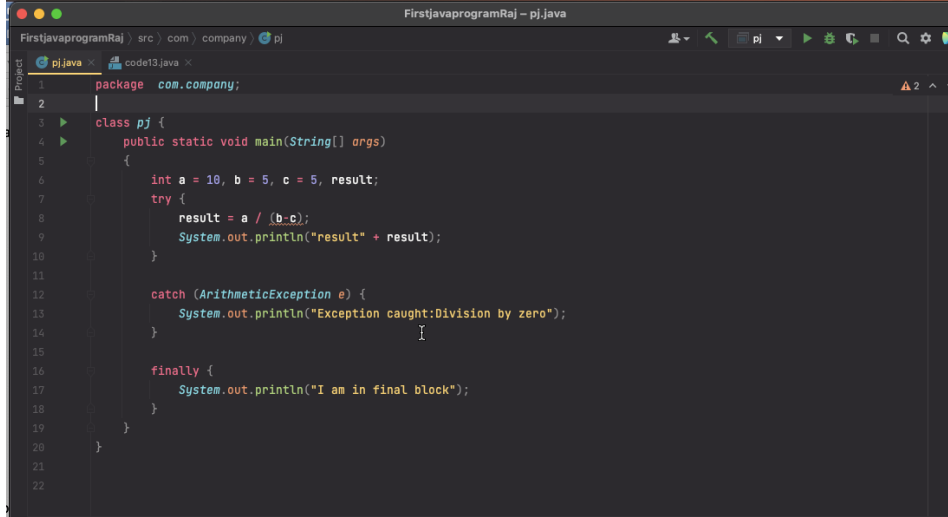
Write a program to handle an exception using try, catch and throw.

Solution

Java program to demonstrate working of try, catch and finally

```
class Division {  
    public static void main(String[] args)  
    {  
        int a = 10, b = 5, c = 5, result;  
        try {  
            result = a / (b - c);  
            System.out.println("result" + result);  
        }  
        catch (ArithmeticException e) {  
            System.out.println("Exception caught:Division by zero");  
        }  
        finally {  
            System.out.println("I am in final block");  
        }  
    }  
}
```

Code In Compiler –



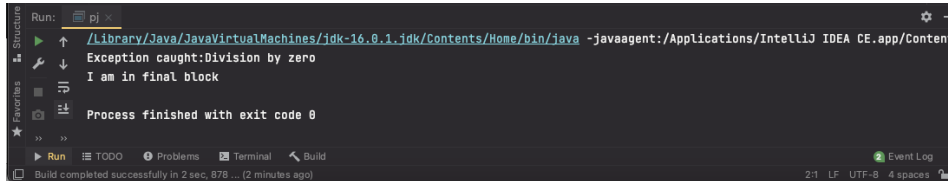
```
FirstjavaprogramRaj - pj.java
package com.company;

class pj {
    public static void main(String[] args)
    {
        int a = 10, b = 5, c = 5, result;
        try {
            result = a / (b-c);
            System.out.println("result" + result);
        }

        catch (ArithmeticException e) {
            System.out.println("Exception caught:Division by zero");
        }

        finally {
            System.out.println("I am in final block");
        }
    }
}
```

OUTPUT



```
Run: pj x
/Library/Java/JavaVirtualMachines/jdk-16.0.1.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents
Exception caught:Division by zero
I am in final block
Process finished with exit code 0
Build completed successfully in 2 sec, 878 ... (2 minutes ago)
```

Java program to demonstrate working of throws

class ThrowsExcep {

```
// This method throws an exception
// to be handled
// by caller or caller
// of caller and so on.
static void fun() throws IllegalAccessException
{
    System.out.println("Inside fun(). ");
    throw new IllegalAccessException("demo");
}

// This is a caller function
public static void main(String args[])
{
    try {
        fun();
    }
    catch (IllegalAccessException e) {
        System.out.println("caught in main.");
    }
}
}
```

Code In Compiler –

```

1 package com.company;
2
3
4 class Pj {
5
6
7     static void fun() throws IllegalAccessException
8     {
9         System.out.println("Inside fun(). ");
10        throw new IllegalAccessException("demo");
11    }
12
13    // This is a caller function
14    public static void main(String args[])
15    {
16        try {
17            fun();
18        }
19        catch (IllegalAccessException e) {
20            System.out.println("caught in main.");
21        }
22    }
23

```

OUTPUT-

```

Run: pj
/Library/Java/JavaVirtualMachines/jdk-16.0.1.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents
Inside fun().
caught in main.

Process finished with exit code 0

```

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			