Java Programming

Assignment 12

Create a project called **Assignment12**. Create a Java class, also called *Assignment12.java* and copy this code into your IDE:

Assignment12.java

```java
public class Assignment12 {

    public static void main(String[] args) {

        int a=0,b=0,c=0;

        System.out.println("Assignment 12");

        a=10;

        c = a/b;

        System.out.println("We are exiting gracefully");

    }

}
```

When you execute this application, you will receive an exception.

```
Exception in thread "main" java.lang.ArithmeticException: / by zero at
Assignment12.main(Assignment12.java:11)
```

Pay special attention to the fact that you don't see the message:

```java
System.out.println("We are exiting gracefully");
```

Basically, the application crashed. The divide by zero cannot be handled by the OS and the program simply losses control and hand that control right back to the OS – ungracefully to say the least.

This can lead to a number of problems. Not the least of which is loss of data – since the program can't clean up before the crash.

This assignment is straightforward, if not trivial.

What you need to do is to rewrite the code so that you use an *exception* handler to 'capture' the divide by zero and keep control within your program.

In this way you will see the message:

```
System.out.println("We are exiting gracefully");
```

What to Turn In

All you need to turn in is the completed the file Assignment12.java. The code must implement the exception handler and print the final message as indicated above.

So please upload the file Assignment12.java to Blackboard. I don't need the entire project. I will simply add the file you submit to my project and test it.