# Montgomery College, CMSC 203 Worksheet 3 Module 11

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Concept	: Questions
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- 1. What is the purpose of the *throw* and *throws* keywords?
- 2. What is the *finally* block and when is it executed?
- 3. Rewrite this multi catch block in a different way.

```
try {
} catch (FileNotFoundException | EOFException ex) {
}
```

4. What exception will be thrown executing the following code block?

```
Integer[][] ints = { { 1, 2, 3 }, { null }, { 7, 8, 9 } };
System.out.println("value = " + ints[1][1].intValue());
```

- A) ArrayIndexOutOfBoundsException
- B) NullPointerException
- C) Both A and B
- D) Will not compile

5. Consider the following two classes. What is the output of the following code?

```
public class ExampleMain {
      public static void main(String[] args) {
            Example ex = new Example();
            ex.call();
      }
}
public class Example {
      private int count = 0;
      public void call() {
            add(2);
            add(3);
            System.out.println("in call method");
            div(0);
      }
      public void add(int val) {
            count += val;
            System.out.println("in add method");
      }
      public void div(int val) {
            count /= val;
            System.out.println("in div method");
      }
}
```

- 6. What is a stack trace? How does the stack trace help handle exceptions?
- 7. Can we write only try block without catch and finally blocks?

### 8. What is the error in this code?

9. What are the correct combinations of try /catch and finally blocks?

- A) Only 1 and 2
- B) 1, 2 and 3 are all correct
- C) 2 Only
- D) Only 1 and 3

# 10. What is the output of the following program?

- A) Exception 10 is thrown
- B) Exception 0 is thrown
- C) IncorrectExceptionFormatException is thrown
- D) Compiler error

### 11. What is the output of the following program?

```
public class ExceptionExamples {
      public static String concatName(String s1, String s2 ) throws
NullPointerException
            if (s1 == null \mid \mid s2 == null)
                  throw new NullPointerException("Null argument");
            else
                  return s1+s2;
      }
}
public class ExceptionDriver {
      public static void someMethod(String s1, String s2) {
            try
                  String s=ExceptionExamples.concatName(s1,s2);
                  System.out.println(s);
            finally {
                  System.out.println("In the finally Block of someMethod ");
            System.out.println("End of someMethod");
      public static void main(String[] args)
      {
            try {
                  someMethod(null, "Hello");
                  someMethod("Hi", "Hello");
          catch (Exception e)
                  System.out.println(e.getMessage());
            finally
                  System.out.println("In the finally Block of main ");
            System.out.println("End of main!");
      }
```

### 12. What is the output of the following program?

```
public class ExceptionExamples {
      public static String concatName(String s1, String s2 ) throws
NullPointerException
            if (s1 == null \mid \mid s2 == null)
                  throw new NullPointerException("Null argument");
            else
                  return s1+s2;
      }
}
public class ExceptionDriver {
      public static void someMethod(String s1, String s2) {
            try
                  String s=ExceptionExamples.concatName(s1,s2);
                  System.out.println(s);
            catch (Exception e)
                  System.out.println(e.getMessage());
            finally {
                  System.out.println("In the finally Block of someMethod ");
            System.out.println("End of someMethod");
      public static void main(String[] args)
            try {
                  someMethod(null, "Hello");
                  someMethod("Hi","Hello");
            finally
                  System.out.println("In the finally Block of main ");
            System.out.println("End of main!");
      }
}
```