Week 10 Assignment

1) Which of these is false?

A) Exceptions can be manually generated by java code
B) The finally block is mandatory with every try .. catch .. block
C) A single try block can be followed by any number of catch blocks
D) Any exception not caught by the program will be handled by the java runtime system

2) What is the output of the following program?

```java
public class Test {
    public static void main(String[] args) {
        try {
            double x=4/0;
            int a[]={2,3};
            a[44]=0;
        }
        catch(ArrayIndexOutOfBoundsException e) {
            System.out.println("ArrayIndexOutOfBoundsException");
        }
        catch(ArithmeticException e) {
            System.out.println("ArithmeticException");
        }
        catch(Exception e) {
            System.out.println("Exception");
        }
    }
}
```

A) ArrayIndexOutOfBoundsException
B) ArithmeticException
C) Exception
D) Syntax error
3) Which of the following is incorrect regarding rethrowing exceptions from within a catch block

A) All further catch blocks for the same try block are ignored.
B) The exception object does not get modified.
C) A rethrown exception can be thrown again from a different catch block
D) Finally block does not get executed if exceptions are rethrown from a catch block

4) Which of the following is true regarding unchecked/checked exceptions

A) RuntimeException is a not a checked exception
B) Java enforces exception handling of unchecked exceptions
C) Unchecked exceptions cannot be thrown by code
D) Java enforces exception handling of checked exceptions

5) Which of the following is false regarding assert

A) When the condition checked using assert fails an exception is thrown
B) By default assertions are disabled in java
C) The condition checked using the assert must evaluate to boolean value
D) If the assert condition succeeds no other action takes place.