Answer the following five questions and turn in by Monday October 19th.

1. Given the following Java method create the Strings that get sent in to a and b that would make the output below happen:

```
public void myString(String a, String b)

{

                 System.out.println(a);

                System.out.println(b);

                System.out.println(a == b);

                System.out.println(a.equals(b));

}
```

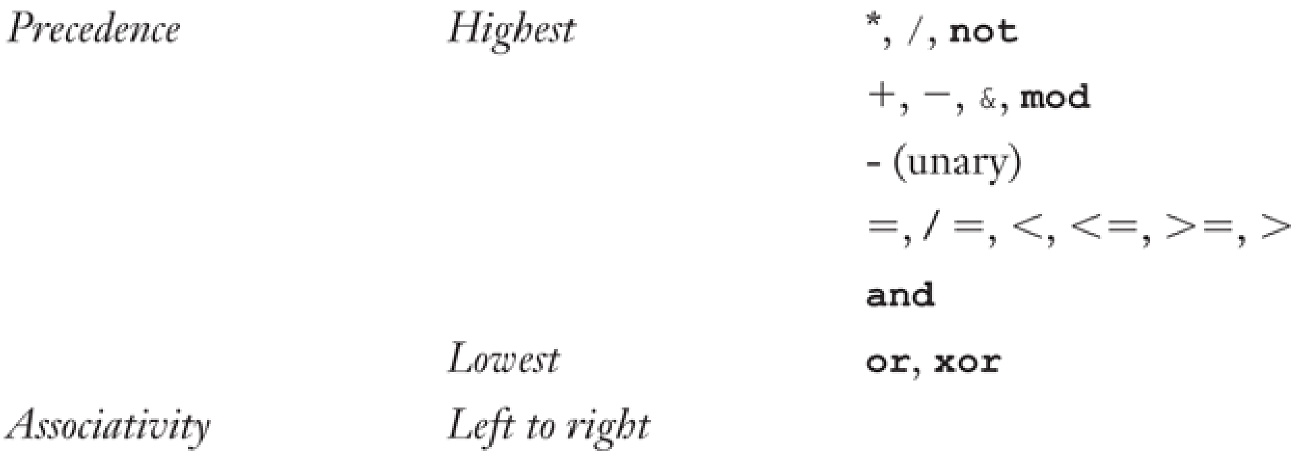
```
OUTPUT:

        Hunter

        Hunter

        false

        true
```

2. Given the following Java code give the values for the bytes a and b as hex numbers where a > 64 an b < 15 that would make the following method output 4.

```
public void myByte (byte a, byte b)

{

     byte c = (byte)(a & b);

     System.out.println(c);

}
```

3. Describe a situation in which the add operator in a programming language would not be associative.

4. Assume the following rules of associativity and precedence for expressions:



Precedence	*Highest*	*, /, **not**
		+, −, &, **mod**
		- (unary)
		=, / =, <, <=, >=, >
		and
	Lowest	**or**, **xor**
Associativity	*Left to right*	

Show the order of evaluation of the following expressions by parenthesizing all subexpressions and placing a superscript on the right parenthesis to indicate order. For example, for the expression

a + b * c + d

the order of evaluation would be represented as

$((a + (b * c)^{1})^{2} + d)^{3}$

A. a * (b - 1) / c **mod** d

B. -a **or** c = d **and** e

C. -a + b

5. Write a BNF description of the precedence rules defined for the expressions in Problem 9. Assume the only operands are the names a,b,c,d, and e.