Practice set for chapter three

1) What does the following code fragment set the variable x to?

```
int y=12;
y++;
int x = y%2  == 0 ? 5 : 6 ;
```

2) Which of the following is the same as the Boolean statement: !(c && d) || e
    a. !d && !c || e
    b. !c || !d ||e
    c. e || c || d
    d. !c && d || e
    e. e && c || d
3) What is wrong with this segment of code? Assume that the Boolean variable extraCredit and the integer variables overallScore and examScore are known by the computer.

```
boolean passedClass = false
if (  overallScore > 60 )
{
        passedClass = true;
}
else if ( examScore > 60 & extraCredit )
{
        passedClass = true;
}
else
{
        System.out.println("You must take this class over.");
```

4) Suppose you are implementing a program to apply a very simple grading rubric to student's scores from the semester. Specifically, you are provided with 3 boolean variables, pass1, pass2, and pass3 which say wheter the student passed each of the 3 exams.
   Students who passed all three exams receive an A in the course. Students who passed only two exams earn a B. Students who passed just one exam get a C. Any students who did not pass any of the exams earn an F.
   Write code that, given the variables pass1, pass2, and pass3 determines what grade a student should receive.

5) No fifth problem this time. Just remember to keep working on your programming assignment.