

Chapter 3 In Class Questions

1) What does this (poorly structured) code do?

```
int x= 14; int y = 9;
System.out.println(x + " , " +y);

if (x<10)
if (y>10)
System.out.println("*****");
else
System.out.println("&&&&&&&&&&&&&&");
System.out.println("$$$$$$$$");
if (x > 10 && y < 8) if (y % 2 ==0 ) System.out.println("@@@@@@@@@@@@@@@@@"); else
System.out.println("AAAAAAAAAAAAAAAA");
```

2) What is the value of the variable name when the following code is run?

```
String name = "";
int rank = 2; //the nth most common last name in the 1990 Census Data

switch( year )
{
case 1:
    name = "Smith";
    break;
case 2:
    name = "Johnson";
    break;
case 3:
    name = "Wlliams";
    break;
default:
    name = "No data provided.";
    break;
}
```

3) What is printed when this code is run?

```
int x = 7;

switch( x )
{
case <0:
    System.out.println("x is negative");
    break;
case 0:
    System.out.println("x is 0");
    break;
case >0
    System.out.println("x is positive");
    break;
}
```

4) What is the value of x after this code is run?

```
int x = 1;
int y = 12;

switch( x )
{
case 10:
    x += 2;
case 12:
    x *= y;
case 14:
    x++;
}
```

5) Given the outcome of the following code, do I have to go to work today?

```
boolean workDay = true;
String day = "Monday";
String WEEKEND_1 = "Sunday";
String WEEKEND_2 = "Saturday";
switch( day )
{
case WEEKEND_1:
    workDay = false;
    break;
case WEEKEND_2:
    workDay = false;
    break;
default:
    workDay = true;
    break;
}
```