

# If Statement Worksheet

For each of the following, correct the syntax errors.

1. 

```
if x > 25.0
    y = x
else
    y = z;
```
2. 

```
if (x >> 0);
    System.out.println("positive " + x);
else;
    System.out.println("negative " + x);
```

What is the output of each of the following statements? Assume that  $x = 5$ ,  $y = 2$ ,  $z = 10$ , and  $\text{temp} = 0$

3. 

```
if (y >= x)
    y = z;
System.out.println(x + " " + y + " " + z);
```
4. 

```
if (y >= x) {
    y = z;
    System.out.println(x + " " + y + " " + z);
}
```
5. 

```
if (x >= 6)
System.out.println(x + y);
System.out.println(x + y);
```
6. 

```
if (x + y > z)
    x = y + z;
else
    x = y - z;
System.out.println(x + " " + y + " " + z);
```

Write if statements for the following problems. Use meaningful variable names. You can assume that the variables you use are declared and have been initialized.

7. If a variable `angle` is equal to 90 degrees, print the message "right angle". Otherwise print the message "not a right angle".
8. If the difference between variables `temp1` and `temp2` is more than 2.3, set the variable `approx` to  $(\text{temp1} - \text{temp2}) * \text{factor}$ .
9. A student at State U is ready to graduate if he or she has completed at least 122 credits. Write the statements to test whether a student is ready to graduate, and print a message telling whether he or she

is ready.

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