WIX1002 Fundamentals of Programming
Tutorial 3 Flow of Control (Selection)

1. Write statements for each of the following
   a. Determine whether 3x8=27.
   b. Determine whether an input integer is an odd number or even number.
   c. Determine whether a character is a capital letter.
   d. Display two strings in alphabetical order ignoring their case.
   e. A switch statement that display Sunday, Monday, .., Satudary if the input is 0, 1, …, 6.

2. Correct the error for the following statements.
   a.
   ```
   if (num1 = num2) {
       System.out.println("Number 1 is equal to number 2.");
   }
   ```
   b.
   ```
   if (x > y > z)
     System.out.println("x is the largest number");
   ```
   c.
   ```
   String s1, s2;
   if (s1==s2)
     System.out.println("They are equal strings.");
   else if (s1!=s2)
     System.out.println("They are not equal strings.");
   ```
   d.
   ```
   if x>0 or y>0;
     System.out.println("Either x or y is positive");
   ```
3. Write the output for the following statements when x=9 and y=10
   a.
   ```
   if (x < 10)
   if (y > 10)
   System.out.println("*****");
   else
   System.out.println("#####");
   System.out.println("$$$$$");
   ```
   b.
   ```
   if (x < 10) {
   if (y < 10)
   System.out.println("*****");
   else{
   System.out.println("#####");
   ```

```
System.out.println("$$$$$");
}}
```

c.

```
if (x < 10) {
if (y < 10)
System.out.println("*****");
System.out.println("#####");
}
else {
System.out.println("$$$$$");
}
```

Output : $$$$$

d.

```
if (x > 10) {
if (y > 10) {
System.out.println("*****");
System.out.println("#####"); }
else
System.out.println("$$$$$");
}
```

Output : no output.

4. Write the java statements that used the if statement to find the biggest number among three given integers.

5. Write the java statements that determine whether the Leap year. A Leap year is divisible by 4 but not by 100. However, a Leap year is also divisible by 400.