Worksheet 4: Conditional Expressions

- 1) What does the term "Conditional Execution" mean?
- 2) For a single if/else pair how many code paths does it have?
- 3) What does the command **prompt** do, and how do you use it?
- 4) What is the purpose of the **isNaN** command?
- 5) Write a JavaScript snippet to check that
 - Accepts input from the user
 - Tries converts it to a number
 - Check if the user entered a number
- 6) For the following code block assume x,y,z exists.

```
if(!isNaN(x) && !isNaN(y) && !isNaN(y) ){
    if(x < 0){
        alert("Snowbird");
    } else if(Math.pow(x,2)+Math.pow(y,2)+Math.pow(z,2) <=1){
        alert("goose egg");
    } else if(Math.pow(x,2)+Math.pow(y,2)+Math.pow(z,2) >1 ){
        alert("Blue Angel");
    } else {
        alert("Maverick");
    }
}
```

- Will the line alert("Maverick") ever execute? Why or why not?
- When will the line alert("goose egg") execute?
- For a single pass of the code snippet, what is the maximum and minimum number of alert statements that will be executed.
- 7) What is the difference between the pages created with each code path?

filename: IC7.html

```
if(userName >= "Donald Trump"){
    output.innerHTML = userName+":You are richer" +
        " than Donald Trump!";
} else {
    output.innerHTML = "No one is as rich as Donald Trump!";
}
```

- 8) Write a simple application using prompt for a local coffee company named MoonDollars and calculate the price.
 - 1) Ask the user for:
 - 1. The size of the drink

a. Regular: \$2.00

b. Medium: \$2.50c. Large: \$3.50

c. Large. 33.

2. Type of coffee

a. Espresso based: add \$1.00

b. Drip coffee: no change

c. Siphon coffee: add \$2.00

2) Display the coffee order and price in the body of the HTML page.