

Research Assignment Week 2

1. What are the different loops Java provides us with?

- For
- while
- Do While
- For Each

2. What is the syntax of one of the loops in your above answer? How and when should you use this loop? Give an example.

```
For (int i=0; i<5;i++){  
    <sysout print i>;  
}
```

The for loop should be used in examples where the developer wants to iterate through the code a known number of times.

3. What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.

```
int i=0;  
while (i < 10){  
    <sysout print i>;  
    i++;  
}
```

The while loop should be used in examples where the number of iterations are not necessarily known. Also, if the boolean expression does not evaluate to true it may never execute.

4. What is the syntax of another one of the loops in your above answer? How and when should you use this loop? Give an example.

```
i=0;  
do {  
    <sysout print i>;  
    i++;  
} while (i<10);
```

The do while loop is much like the while loop, with the exception that it will always run at least once.

5. What is your favorite thing you learned this week?

- I had forgotten about the Do While loop and how the switch differs from case statements in other languages.