**Research Week 2**

**What are the different loops Java provides us with?**

* While
* For
* Do while

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

While (Boolean condition)

{

Loop statements…

{

Use this loop when you want a value checked before your run the code in the loop.

**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.**

For (int I = 0; I < X; i++)

{

Loop statements…

}

This loop is best used when the number of iterations needed is known. Or when it would be beneficial to set the condition variable in the loop.

**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.**

Do

{

Statements…

}

While (condition)

This loop should be used when you need your code to run at least once. The do while loop will run once then it will check the condition afterwards.

Sources:

<https://www.geeksforgeeks.org/loops-in-java/>

<https://www.w3schools.com/java/java_while_loop.asp>

**What is your favorite thing you learned this week?**

I enjoyed learning about loops they seem extremely useful. I can’t wait to see what problems I get to solve with them.