Create a tutorial for a new programmer.  This tutorial should help the programmer understand the difference between while loops and for loops.  Be sure to provide supportive examples that include syntactically correct code.

Once you have made your post, please respond to at least two other students interacting on the tutorial posted and differences between while loops and for loops.

Hi everyone,

Today we’re going to discuss loops, and specifically hone in on two common types of loops. But first, let’s define what a loop is and how/why we might use them.

**LOOP:**  
A loop is a structure that repeatedly executes **its body of instructions** as long as the associated **condition evaluates to true**. When the condition evaluates to false, control exits the loop. Each execution of the loop body is referred to as an iteration.

A real life example is something like the following:

Consider a prompt like “The kids can watch television after dinner and until their bedtime, at 8 PM”. The dinner time varies from night to night, but you always check the clock at half hour intervals to see if it is 8PM.

On Monday, dinner ended at 7pm. So you check the clock at 7:30 – it’s not yet 8, so they can continue watching television. You check again at 8PM, and the kids stop watching TV and go to sleep.   
Maybe Tuesday, you finish dinner earlier at 6:30 PM.

You continually check the clock each half hour until it reaches 8 PM and put the kids to bed.

The body of instructions is that the kids can continue to watch TV. The condition is that the time is before 8 PM. Once the time is 8PM or later, a different instruction (putting the kids to bed) can be executed.

FOR LOOPS:

WHILE LOOPS: