

### **Assignment # 2**

#### **1. What is looping in programming**

**--In programming, a loop is a control flow structure that allows a block of code to be executed repeatedly a certain number of times or while a certain condition is true. There are several types of loops in programming, including for loops, while loops, and do-while loops. Loops are an important tool for performing repetitive tasks, such as iterating through the elements of an array or processing a large amount of data. They can also be used for tasks such as generating animations, waiting for user input, or running a game loop.**

#### **2. What are the two types of**

**The for loop and the while loop are the two major forms of loops in Python.**

**A for loop iterates over a sequence (such a list, tuple, or string) and executes a block of code for each item in the series.**

**A while loop is used to repeatedly execute a block of code as long as a certain condition is true.**