**PYTHON WEEK 2**

**CONTROL FLOW STATEMENTS**

What are control flow in Python?

Is an order in which the program code executes.

Control flow are regulated by conditional statement, Loops and Functions.

Three control structure:

Sequential – default mode

**If the logic is broken in one of the line code, the program code will not execute**

Selection – used for decision and branching.

**It test the condition if it is true or false, it only execute instructions based on the condition if its true or false.**

Repetition – used for looping, e.g repeating a piece of code multiple times.

**nested if:** Nested if statements are an if statement inside another if statement.

**if-elif-else:** The if-elif-else statement is used to conditionally execute a statement or a block of statements.

**REPETITION**

Is used to repeat a group of programing instructions.

**We have two Loop/repetition statements**

For loop

While loop

**for loop**: A for loop is used to iterate over a sequence that is either a list, tuple, dictionary, or a set. We can execute a set of statements once for each item in a list, tuple, or dictionary.

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A computer screen shot of a computer code

Description automatically generated

**while loop:** In Python, while loops are used to execute a block of statements repeatedly until a given condition is satisfied. Then, the expression is checked again and, if it is still true, the body is executed again. This continues until the expression becomes false.

A screenshot of a computer

Description automatically generated

**while loop:** In Python, while loops are used to execute a block of statements repeatedly until a given condition is satisfied. Then, the expression is checked again and, if it is still true, the body is executed again.

**DAY 2**