**COURSE NAME:** Principals of Programming

**LECTURE TOPIC / MODULE:** Introduction to Programming Concepts / Module 1

**DATE(S):** 08.04.25 – 08.10.25

**INSTRUCTOR:** Steven Evans

**KEY CONCEPTS:**

* Evaluate the purpose of using looping constructs in programming.
* Explain the structure of a while loop.
* Formulate the structure of a do-while loop.
* Develop the structure of a for-loop.
* Explain the causes of an infinite loop.

**DEFINITIONS:**

* A **loop** is a program construct that repeatedly executes the loop's statements (known as the **loop body**) while the loop's expression is true; when false, execution proceeds past the loop. Each time through a loop's statements is called an **iteration**.

**FORMULAS / NOTES:**

**EXAMPLE(S) / ILLUSTRATION(S):**

**QUESTIONS TO REVISIT / COMMON PITFALL(S):**

**ADDITIONAL READING(S) / LINKS:**