**HOMEWORK**

**Introduction to Programming using Python**

**TUT-01: Problem set 01**

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**Problem 1:**

1. The difference between an Algorithm and a Program?

(a) An algorithm is a conceptual idea, a program is a concrete instantiation of an algorithm.

2. A computational mode of thinking means that everything can be viewed as a math problem involving numbers and formulas. - True

3. Computer Science is the study of how to build efficient machines that run programs. - True

4. The two things every computer can do are:

(a) Perform calculations

(d) Remember the results

5. In the following numeric expression, what is evaluated first?

4 ∗ a + 7/(x − y) + (n ∗ ∗3)

(c) 4 ∗ a

**Problem 2:**

1. A sequence of instructions is called a(n)

(a) program

2. Writing Python statements is called

(a) coding

3. Which programming tool graphically depicts the logical steps to carry out a task and show how the steps relate to each other?

(a) flowchart

4. Which programming tool uses English-like phrases with some Python terms to outline the task?

(d) pseudocode

5. Integer division is accomplished using the operator.

(a) //

**Problem 3:**