

**SD-230 Problem Solving and Programmatic Logic**

**Assignment # 1**

*\*\*Note: This assignment is to be done individually; you are not allowed to work on this assignment with anyone. This assignment is due at March 8th before class starts (2:15pm)*

**Question 1: Draw the truth tables for each of the following expressions (2 mark each):**

1. ~(A /\ B)
2. ~A \/ ~B
3. A /\ ~ B
4. (A /\ ~ B) \/ ~A
5. (A /\ B) \/ (A /\ ~B)

**Submission Guidelines:**

Your submission must be a word document and/or spreadsheet (e.g. some students do the truth tables in a spreadsheet because they don't feel like messing around with tables in their word processor).

Your truth tables must have proper rows & columns, column headers, and lines as demonstrated in class.

Submit your assignment via a private message in Slack to your Instructor.

**Failure to follow any of the instructions above will result in penalties or get a grade of 0.**

**Evaluation:**

Your assignment is evaluated as follows:

|  |  |  |
| --- | --- | --- |
| **Question 1** | | |
| **Criteria** | **Marks** | **Comments** |
| - all working initial columns, working columns, and solution columns are included | /10 |  |
| - logic is correct (e.g. if you make one small mistake that affects the rest of the solution, you'll still get some marks if the logic/process was correct for the rest of the solution) |
| - solution is correct |
| **Penalties** |
| **Criteria** | **Marks** | **Comments** |
| Assignment submission instructions not followed (-2) | -- |  |
| Work is illegible, unreadable, messy, etc. (-2) |
|  | | |
| **Assignment 1 Total:** | **/10** | |