CSE565 Lab 3

**Name**:

**Email**:

**UBID**:

**UB Number**:

**Before You Start:**

Please write a detailed lab report, with **screenshots**, to describe what you have **done** and what you have **observed**. You also need to provide **explanation** to the observations that you noticed. Please also show the important **code snippets** followed by explanation. Simply attaching code without any explanation will NOT receive credits.

After you finish, export this report as a **PDF** file and submit it on UBLearns.

**Academic Integrity Statement:**

I, \_\_\_\_\_\_\_\_\_, have read and understood the course academic integrity policy.

(Your report will not be graded without filling your name in the above AI statement)

Task 1: Number of Images

Task 2: Size of image, its label, and class

Task3: Implement FGSM formula

Task 4: Implement PGD formula

Task 5: Pass perturbed images through the model to perform FGSM attack

Task 6: Pass perturbed images through the model to perform PGD attack

Task 7: Execute the FGSM attack using different epsilon values

Task 8: Execute the PGD attack using different epsilon values.

Task 9: What are your observations?