# CIST 2742

# Python Programming

**LAB #9 – *40 Points***

**Instructions** A car company needs a program that will show braking and acceleration of a car at its current speed.

Steps:

* Write a class named Car that has the following data attributes:
  + \_ \_year\_model (for the car’s year model)
  + \_ \_make (for the make of the car
  + \_ \_speed (for the car’s current speed)
* The Car class should have an \_ \_init\_ \_ method that accepts the car’s year and model and make as arguments.
  + These values should be assigned to the object’s \_ \_year\_model and \_ \_make data attributes.
  + It should also ask the user for the current speed and assign 0itto the \_ \_speed data attribute.
* In the main.py,
  + it should also have the following methods:
    - Accelerate The method should add 5 to the speed data attribute each time it is called.
    - Brake The method should subtract 5 from the speed data attribute each time it is called.
    - get\_speed The method should return the current speed.
  + Creates a new Car object
  + Creates loop to run accelerate () 5 times and displays current speed after each loop
  + Creates loop to run brake () 5 times and displays current speed after each loop
  + Include Header below:

*# Class: CIST 2742 Python Programming I  
# Term: Fall 2022  
# Instructor: Chris Bishop  
# Description: Solution to Lab #X  
# Author: (Student Name Here)  
#  
# By turning in this code, I Pledge:  
# 1. That I have completed the programming assignment independently.  
# 2. I have not copied the code from a student or any source.  
# 3. I have not given my code to any student.*

Execute the program and take screen capture of output.

Submit screen capture and python(py) file/code via blackboard.

Sample result:

