**Lab #5 (10 points + 5 bonus points)**

# Practice: while and for statements

Problem 1: write a while loop to calculate your investment account balance. Ask the user to enter the initial balance (say, $500), interest rate (say 3.5 which represents 3.5%), and number of years (say, 5 years), and then calculate and print out the balance at the end of 5th year. Assume interest compounded at the end of each year.

Problem 2: write a for loop to generate n random numbers in the range of 1 to 50 where n is an integer entered by the user (i.e. ask the user “How many random numbers you’d generate). Print out all n random numbers.

Problem 3 (bonus): a user wants to buy x dollars (x is an integer entered by the user) of California Super Lotto tickets using quick pick. Generate the x tickets for the user. Note: check Super Lotto rule at California Lottery website.

Random number generator:

import random

n = random.randint(1, 100) #n is a random number in [1, 100), note: 100 is not included.

Submission requirement:

1. Copy and paste the output of all your test runs to the end of your program and comment out the output
2. Upload your Python program (with output added) to blackboard along the Lab 5 link.