#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* CS421: Assignment 5 \*\*\*\*\*\*\*\*\*\*\*\*\*\*

#

# There are four sections in this assignment. Each section is worth 2.5 points.

# Skeleton code is already given.

# You only need to add your code between BEGIN and END lines in each section.

#

# Use pythontutor.com to implement each section.

# Save the complete implementation to a file called "a5\_lists.py" and submit the file to Google Classroom

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#----------------------------------------------------------------------------

# A.5.1 --> Assume that some students registered twice for the same class.

# You need to write a program to remove the duplicate registrations from a list

#----------------------------------------------------------------------------

# define students list

students = ["abe", "barb", "chris", "abe", "dan", "chris", "ellie"]

print("All students --> ", students)

#=========================================

#----------------------------------------------------------------------------

# A.5.1 --> Assume that some students registered twice for the same class.

# You need to write a program to remove the duplicate registrations from a list

#----------------------------------------------------------------------------

#=========================================

# BEGIN -- your code

# define students list

students = ["abe", "barb", "chris", "abe", "dan", "chris", "ellie"]

#printing all students

print("All students --> ", students)

student\_1 = [ ]

#use for loop on the original

for x in students:

if (x not in student\_1):

student\_1.insert(len(student\_1), x)

#print the unique list of students

print("List of Unique students --> ", student\_1)

# END -- your code

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#----------------------------------------------------------------------------

#A.5.2 --> Assume that some students registered both HTML and python classes

# Find out the list of students who registered for both the classes.

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# BEGIN -- your code

html = [ "barb", "dan", "ellie", "abe", "chris"]

python = ["henry", "chris", "dan", "ellie", "frank", "gavin"]

dupe\_list = []

for x in html:

if x in python:

dupe\_list.append(x)

#printing all three list

print("html students --> ", html)

print("python students --> ", python)

#printing list who registered in both classes

print("list of students registered in both classes --> ", dupe\_list)

# END -- your code

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