

CMPS 150

Spring 2017

Programming Assignment #5

Date Assigned: Monday, March 6, 2017

Due Date: 11:55 PM, Friday, March 10, 2017

Objectives:

- i/o stmts, arithmetic expressions, formatted output, selection & repetition statements, file input

- 1) Include the following information as comments at the beginning of your source code. Name it **pa5.py**
BE SURE it lines up nicely as you see it below.

```
# Author:           Type-Your-Name
# CLID:            Type-Your-CLID
# Course/Section:  CMPS 150 - Section X
# Assignment:      pa5
# Date Assigned:   Monday, March 6, 2017
# Date/Time Due:   Friday, March 10, 2017 -- 11:55 pm
#
# Description: Write a brief description here.
#
# Certification of Authenticity:
# I certify that this assignment is entirely my own work.
```

2) Program Description

Write a program to read numeric data from a file named “pa5data.py” Terminate the reading of data when you read a value of zero (0). A sample input file is on the class Moodle site.

Collect statistics such that you can report the following when done:

- count of positive numbers read from the file
- count of negative numbers read from the file
- count of even numbers read from the file
- count of odd numbers read from the file
- sum of all numbers read from the file
- count of all numbers read from the file
- average of all numbers read from the file (rounded to 2 decimal places)

3) Sample Run

```
Positive = 54
Negative = 46
Even     = 53
Odd      = 47
Sum      = 1879
Count    = 100
Average  = 18.79
```

4) Upload to Moodle

Get in a browser and login to Moodle.

Instead of going to the Lecture Section, go to YOUR specific submission section on the Moodle site.
Click on the link for Programming Assignment #5.

Select to “Upload a File”

Select to “Choose a File” and go about the process of browsing/finding “**pa5.py**” on the computer.

Select to “Upload this File”

When returned to the Upload screen, MAKE SURE to click on the “Save Changes” button.

You will be returned to the “Programming Assignment #5” screen.

This time you should see your source code file listed on it.

5. Logout of Moodle

***You can turn in programs
up to 24 hours late for a maximum of 75% credit
or up to 48 hours late for a maximum of 50% credit***