**Instructions:**

* The midterm is an open book exam
* The instructor cannot assist on the midterm
* The exam must be turned in before class
* Print screen of results, save to this MS Word and Summit
* Upload py files to GitHub
* **GitHub URL:**

Good luck.

**There are 8 print screens each is worth 12.5%**

**Project #1 (based on Chapter 5 functions) for the program below be sure to use functions.**

Text, letter

Description automatically generated

**#1 Print screen the output with the code below here.**

Text

Description automatically generated

**Project #2 (based on Chapter 6 Files and Exceptions)**

Write a program that will **read** the coffee text file (please download from module 8 midterm). Display the entire file on the console.

**#2 Print screen the output with the code below here.**

Text

Description automatically generated

Write a program that will **write** to the coffee text file. Ask user to enter their favorite coffee brand, with the prod number 99-8888, and price $9.88.

Verify by reading the file content.

**#3 Print screen the output with the code below here.**

Text

Description automatically generated

Text

Description automatically generated

Create a text file that contains your expenses for last month in the following categories:

• Rent

• Gas

• Food

• Clothing

• Car payment

* Write a program to prompt user for each of the 5 categories and write to this text file.
  + You may create and or format text file anyway you wish.
* Then read and print the content of the file

**#4 Print screen the output with the code below here.**

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

**Project #3 (based on Chapter 7 Lists and Tuples)**

Create a 1-D list with the numbers 20-30 and get the sum and average of the numbers.

**#5 Print screen the output with the code below here.**

**Text

Description automatically generated**

In the 1-D list retrieve only the lucky number 27 and print it.

**#6 Print screen the output with the code below here.**

Text

Description automatically generated

Create a 2-D list with the numbers 1-10 and retrieve the lucky number 7. Below is an example of a 2-d list.

Table

Description automatically generated

**#7 Print screen the output with the code below here.**

**Text

Description automatically generated**

Create a list of 5 random names and using a for loop print the names in console.

**#8 Print screen the output with the code below here.**

**Text

Description automatically generated**