Terminal (left pane):

```
dir
dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects/Wk2$ python3 dominguez_program2.py

This function estimates latency between NASA and The Curiosity Rover.
------------------------------------------------------------------
The time at Closest orbit is: 182.79569892473117 seconds.
The time at Farthest orbit is: 1338.7096774193549 seconds.
The time at Average orbit is: 747.3118279569892 seconds.
------------------------------------------------------------------

Daniel Dominguez
CIS110 Program 2
Mon May 27 16:43:37 2019

Press <Enter> to quit.
```

Editor (right pane) — dominguez_program2.py:

```python
'''
Program Name: dominguez_program2.py
Program Description: This program calculates the latency between NASA and The Curiosity Rover.
Author:Daniel Dominguez
Date Created:5/27/19
Notes of Interest:none
'''
import time


def main():
        print()                                          #introduction
        print("This function estimates latency between NASA and The Curiosity Rover.")
        print("------------------------------------------------------------------")

        distanceLabel = ["Closest","Farthest","Average"]     #Array of the labels for distances
        distanceArray = [34000000,249000000,139000000]       #Array of the distances
        indexCounter = -1                                    #Variable to represent the index value
                                                             over two seperate arrays

        speedOfLight = 186000                                #Variable to represetn the speed of light
                                                             value.

        for i in distanceArray:                              #Begins a for loop over the distance
                                                             array.

                indexCounter = indexCounter+1                #increases index counter by 1 each loop
                print("The time at",distanceLabel[indexCounter],"orbit is:",
                        distanceArray[indexCounter]/speedOfLight,"seconds.")
                                                             #Prints the output the screen for each
                                                             element in the array.


main()                                                   #Calls the main Function
print("------------------------------------------------------------------")
print()
print("Daniel Dominguez")                                #prints authors name, class and date.
print("CIS110 Program 2")
print(time.asctime(time.localtime(time.time())))         #Prints the current date and time using
                                                         asctime()

print()
input("Press <Enter> to quit.")
```