For each program that you create:

1. Create a flowchart or input/out list that shows the inputs, calculations, and outputs.
2. Create a pseudocode set of instructions that will implement the program.
3. Create a Python application that demonstrates the functionality of the request.

For example, consider the following problem:

Given an hourly wage and the number of hours worked, calculate the gross pay.

Flowchart:

Input/Output :

Inputs:	Hourly rate, Number of Hours
Calculation:	Gross Pay = Hourly Rate X Number of Hours
Output:	Gross Pay

Pseudocode:

Prompt for hourly rate
Prompt for number of hours worked
Calculate the gross pay by multiplying number of hours by hourly rate
Display the gross pay

```
'''
  File: GrossPay.py
  Author: Andrew Hughen
  Description: A main program that creates a Scanner object and uses it to read hourly rate and number
    of hours worked as an integer from the keyboard.
'''

def main():
    hourlyRate = eval(input("Enter your whole number hourly rate:\t\t"))              # Input prompt
    hoursWorked = eval(input("Enter a whole number of hours you worked:\t"))   # Input prompt
    print(str(hoursWorked) + " hours at $" + str(hourlyRate) +
          " an hour is $" + str(hourlyRate*hoursWorked));                                  # Output Display

main()
```