In-Class - September 10 - SOLUTIONS

In this assignment, you are going to design a program that calculates your gross pay. You'll write the program in stages.

The simplest solution is as follows:

```python
# SOLUTION without using functions: In-Class Assignment – September 10, 2013

hourly_wage = float(input("What is your hourly wage? "))
hours_worked = float(input("How many hours did you work? "))
gross_pay = hourly_wage*hours_worked
gross_pay = format(gross_pay, ',.2f')
print("Your total gross pay is $", gross_pay, sep='')
```

You can also write this program using functions. It's a lot more complicated, but when we start writing longer programs, this will be the easier approach.

```python
# SOLUTION using functions: In-Class Assignment – September 10, 2013

# a function that gets the hourly wage
def get_hourly_wage():
    local_hourly_wage = float(input("What is your hourly wage? "))
    return local_hourly_wage

# a function that gets the number of hours worked
def get_hours_worked():
    local_hours_worked = float(input("How many hours did you work? "))
    return local_hours_worked

# a function that calculates the total gross pay
def calculate_gross_pay(hrly_wage, hrs_worked):
    local_gross_pay = hrly_wage*hrs_worked
    return local_gross_pay

# a function that displays the total gross pay to the user
```
def display_pay(grs_pay):
    grs_pay = format(grs_pay, ',.2f')
    print("Your total gross pay is ", grs_pay, sep='\$')

# The actual body of the program,
# everything above is just function definitions
#

hourly_wage = get_hourly_wage()
hours_worked = get_hours_worked()
gross_pay = calculate_gross_pay(hourly_wage, hours_worked)
display_pay(gross_pay)