January 28, 2019

Take Home Lab Activity

Functionality and Code Making

(1)	Each function is equivalent to 10 points	3 x 10	30	points
(2)	The Menu is given 10 points		10	
(3)	The looping function for the Main Menu is 10 points		10	
(4)	The while for the 3rd function is given 5 points		5	
(5)	The cleanliness of Code is given 5 points		5	
		Total	**60**	**points**

Note : Sample output for the whole program is given at the end of the problem.

Instructions:

Make a menu based and function base program with output

```
**************************************
Main Menu
[1]     Computes the Grosss Pay with Overtime
[2]     Computes an Investment
[3]     Computes a tuition fee based on different modes of payment
```

If the user Chooses [1] it would do function1

FUNCTION 1:

Write function that calculates and displays the weekly salary for an employee. If hours worked exceed 40 hours it is considered as overtime hours. Calculate the gross pay, which is regular hour times the pay rate plus over time hours times 1.5 times the hourly pay rate;

With Overtime:

```
Enter the hourly pay rate : Php 500.25
Enter the hours worked : 45.25
Employee's Weekly gross pay is Php 23,949.47
```

OR

Without Overtime:

```
Enter the hourly pay rate : Php 500.25
Enter the hours worked : 36
Employee's Weekly gross pay is Php 18,009.00
```

If the user Chooses [2] it would do function2

FUNCTION 2:

Write a function that will prompt the user to enter the amount of money to be invested, interest rate and the number of years, for the investment. The program will display the amount of money earned based on the given details of the user.

```
Enter amount of investment : Php 10000
Enter number of years : 10
Enter interest rate (as a decimal) : 0.05
Your investment at 5.0 % =
After year 1    :       Php 10,500.00
After year 2    :       Php 11,025.00
After year 3    :       Php 11,576.25
After year 4    :       Php 12,155.06
After year 5    :       Php 12,762.82
After year 6    :       Php 13,400.96
After year 7    :       Php 14,071.00
After year 8    :       Php 14,774.55
After year 9    :       Php 15,513.28
After year 10   :       Php 16,288.95
```

If the user Chooses [3] it would do function3

FUNCTION 3:

Write a program that accepts a price of an item and display its coded value.
The base of the key is

0 1 2 3 4 5 6 7 8 9
X C O M P U T E R S

Sample output:

```
          Menu 3
  Enter code value :  126.53
  Equivalemt code : COT.UM
```