COLLEGE OF ENGINERING AND COMPUTER STUDIES

PRELIMS HANDS-ON EXAM

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Course & Section
BSCS 1-1

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I.   **Description**

        Prelims Hands-on exam

II.   **CONCEPTUAL FRAMEWORK**

INPUT	PROCESS	OUTPUT
Name	```cout << "Enter your name : ";``` ```cin >> Name;```	
Employee Number	```cout << "Enter Employee number: ";``` ```cin >> EmID;```	
Date of Payday	```cout << "Date of Payday : ";``` ```cin >> PD;```	
hours_worked	```cout << "Enter number of hours worked : ";``` ```cin >> hours_worked;```	
rate_per_hour	```cout << "Enter rate per hour : ";``` ```cin >> rate_per_hour;```	
PH	```float PH = 150;```	**PH**
SSS	```float SSS = 250;```	**SSS**
PG	```float PG = 200;```	**PG**

Employee Status	```if(NetP < 5000.00){```
	``` cout << "Employee Status : Contractual" << endl;```
	```}```
	```else if(NetP >= 5001.00 && NetP <= 10000){```
	``` cout << "Employee Status : Probationary " << endl;```
	```}```	

```
else if(NetP > 10001){
    cout << "Employee Status : Regular " << endl;
}
else if(hours_worked ==0 && rate_per_hour ==0){
    cout << "!!INVALID INPUT!!";
    return 0;
}
```

III.   I/O SCREEN SHOTS

GIVEN I/O:

SAMPLE OUTPUT: (Provide a screenshot of this I/O and 1 more I/O in your submission)

Enter your name   _: Juan Dela Cruz
Employee number : 987-123-435
Date of payday   _: October 5, 2021

Hourly pay rate : 200.50
Hours worked   : 46

Payroll summary for : Juan Dela Cruz
Employee No.   _: 987-123-435
Payroll date   _: October 5, 2021

You earned 46.00 at 200.50 per hour
Gross pay: Php 9,223.00
Withholding tax   1,106.76
Philhealth   150.00
SSS   250.00
Pagibig   200.00

Net pay   Php 7,516.24

Employee status : Probationary

MY I/O:

INPUT:

```cpp
1   //Name         : Mike Villegas
2   //Activity Name: Exam
3   //Description  : Prelim Hands-On Exam
4   //Date         : 10/6/21
5
6
7   #include <iostream>
8   #include <string>
9
10  using namespace std;
11
12  const double tax = 0.12;
13
14  int main(void){
15
16      //Declarations
17      string EmID,Name, Status,PD;
18      int hours_worked,Misc;
19      double Gross_Pay,Total,NetP,Tax,Ans;
20      double rate_per_hour,TaxGP;
21
22      Tax = 0.12;
23      float PH = 150;
24      float SSS = 250;
25      float PG = 200;
26
27
28      //INPUT DISPLAY//
29      cout << "Enter your name              : ";
30      getline(cin,Name);
31      cout << "Enter Employee number        : ";
32      cin >> EmID;
33      cout << "Date of Payday               : ";
34      cin >> PD;
35      cout << "Enter number of hours worked : ";
36      cin >> hours_worked;
37      cout << "Enter rate per hour          : ";
38      cin >> rate_per_hour;
39
40
41
42      cout.setf(ios::showpoint);
```

```cpp
43      cout.setf(ios::showpoint);
44      cout.setf(ios::fixed);
45      cout.precision(2);
46
47      if(hours_worked ==0 && rate_per_hour ==0){
48          cout << "!!INVALID INPUT!!";
49          return 0;
50      }
51      else if (hours_worked <= 40){
52          Gross_Pay = rate_per_hour * hours_worked;
53      }
54      else if (hours_worked > 40){
55          Gross_Pay =  rate_per_hour * 40 + 1.5 * rate_per_hour * (hours_worked - 40);
56      }
57
58      //Formula
59      Misc = PH + SSS + PG;
60      TaxGP = Tax * Gross_Pay;
61      NetP = Gross_Pay - (Misc + TaxGP);
62
63
64      //OUTPUT DISPLAY//
65      cout << "\n_____" << endl;
66      cout << "Payroll summary for : " << Name << endl;
67      cout << "Employee ID no.     : " << EmID << endl;
68      cout << "Payroll date        : " << PD   << endl;
69      cout << "\n ";
70
71      cout << "You worked for " << hours_worked << " hours at P" << rate_per_hour <<  " per hour " << endl;
72      cout << "Gross Pay           : " << Gross_Pay << endl;
73      cout << "Withholding Tax     : " << Tax * Gross_Pay  << endl;
74      cout << "Philhealth          : " << PH   << endl;
75      cout << "SSS                 : " << SSS  << endl;
76      cout << "Pagibig             : " << PG   << endl;
77      cout <<"\n_____" << endl;
78      cout << "Net Pay : " << NetP << endl;
79
```

```cpp
    //Conditions for Employee status
if(NetP <= 5000.00){
    cout << "Employee Status : Contractual" << endl;
}
else if(NetP >= 5001.00 && NetP <= 10000){
    cout << "Employee Status : Probationary  "  << endl;
}
else if(NetP > 10001){
    cout << "Employee Status : Regular " << endl;
}

return 0;
```

OUTPUT:

```
Enter your name                 : Arno Dorian
Enter Employee number           : 1365-5446-7777
Date of Payday                  : 10-15-21

Hours worked    : 25
Hourly pay rate : 200


----------------------------------------
Payroll summary for : Arno Dorian
Employee ID no.     : 1365-5446-7777
Payroll date        : 10-15-21

 You worked for 25 hours at P200.00 per hour
Gross Pay           : 5000.00
Withholding Tax     : 600.00
Philhealth          : 150.00
SSS                 : 250.00
Pagibig             : 200.00


----------------------------------------
Net Pay : 3800.00
Employee Status : Contractual
PS C:\Users\63997\Downloads\LPU\CPF - LAB\Activities> |
```

```
Enter your name              : Shay Cormac
Enter Employee number        : 7654-4384-4354
Date of Payday               : 10-30-21

Hours worked    : 46
Hourly pay rate : 200


----------------------------------------
Payroll summary for : Shay Cormac
Employee ID no.      : 7654-4384-4354
Payroll date         : 10-30-21

 You worked for 46 hours at P200.00 per hour
Gross Pay             : 9800.00
Withholding Tax       : 1176.00
Philhealth            : 150.00
SSS                   : 250.00
Pagibig               : 200.00


--------------------------------------------
Net Pay : 8024.00
Employee Status : Probationary
PS C:\Users\63997\Downloads\LPU\CPF - LAB\Activities> █
```

```
Enter your name                : Edward Kenway
Enter Employee number          : 5434-7351-7456
Date of Payday                 : 10-31-21

Hours worked     : 50
Hourly pay rate  : 250


----------------------------------------
Payroll summary for : Edward Kenway
Employee ID no.      : 5434-7351-7456
Payroll date         : 10-31-21

 You worked for 50 hours at P250.00 per hour
Gross Pay             : 13750.00
Withholding Tax       : 1650.00
Philhealth            : 150.00
SSS                   : 250.00
Pagibig               : 200.00


--------------------------------------------
Net Pay : 11500.00
Employee Status : Regular
PS C:\Users\63997\Downloads\LPU\CPF - LAB\Activities> []
```

IV. **PROGRAM SOURCE CODE (Main Logic Only)**

```cpp
if (hours_worked <= 40){
        Gross_Pay = rate_per_hour * hours_worked;
}
else if (hours_worked > 40){
        Gross_Pay =  rate_per_hour * 40 + 1.5 * rate_per_hour *
(hours_worked - 40);
}
```

```cpp
   //Conditions for Employee status
if(NetP <= 5000.00){
    cout << "Employee Status : Contractual" << endl;
}
else if(NetP >= 5001.00 && NetP <= 10000){
    cout << "Employee Status : Probationary  "  << endl;
}
else if(NetP > 10001){
    cout << "Employee Status : Regular " << endl;
}
else if(hours_worked ==0 && rate_per_hour ==0){
    cout << "!!INVALID INPUT!!";
    return 0;
}
```

V. **GitHub ACTIVITY LINK**

https://github.com/MikeVillegas00/Activities/blob/master/cpfl_prelim_exam.cpp

VI. **LEARNING OUTCOMES**
Just a reapplication of the last OE.

VII. **REFERENCES**

None