COLLEGE OF ENGINERING AND COMPUTER STUDIES

PERFORMANCE TASK # 2

Debugging Activity

Subject Code / Description
CPF-L

Submitted By
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Course & Section
BSCS 1-1

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I. **INTRODUCTION**
  A. **Problem Description**
    Conversion Console App using functions [Dollay to Peso & Peso to Dollar
  B. **Objectives**
    To learn new coding statement

II. **CONCEPTUAL FRAMEWORK**

INPUT	PROCESS	OUTPUT
Program that will ask them to select from the console	Using switch case and void and do statement.	Program will display the result that the user enter.

III.   I/O SCREEN SHOTS

```
OUTPUT    PROBLEMS    TERMINAL    DEBUG CONSOLE


Dollar to Peso Conversion App
[1] Dollar to Peso
[2] Peso to Dollar
[0] Exit the Coversion App
Select Conversion : 1

<< Convert Dollar to Peso >>

$1 US = 50.73 Pesos.
Enter a US dollar amount (without the dollar sign, commas or a decimal) : [####] 30

$30 US = 1,521.90 Pesos.
Do you want to continue?
[1] YES
[2] NO
```

```
Dollar to Peso Conversion App
[1] Dollar to Peso
[2] Peso to Dollar
[0] Exit the Coversion App
Select Conversion : 2

<< Convert Peso to Dollar >>

P1 Php = 0.02 USD.
Enter a PHP amount (without the peso sign, commas or a decimal) : [####] 100

P100 Php = 2.00 USD.
Do you want to continue?
[1] YES
[2] NO
```

```
Dollar to Peso Conversion App
[1] Dollar to Peso
[2] Peso to Dollar
[0] Exit the Coversion App
Select Conversion : 1

<< Convert Dollar to Peso >>

$1 US = 50.73 Pesos.
Enter a US dollar amount (without the dollar sign, commas or a decimal) : [####] 50

$50 US = 2,536.50 Pesos.
Do you want to continue?
[1] YES
[2] NO
```

IV.   PROGRAM SOURCE CODE (Main Logic Only)

```cpp
1   //Performance Task 2:
2   //Description: Conversion Console App using functions [Dollay to Peso & Peso to Dollar]
3   //           This is also a debugging activity
4   //Name: Adrian M. Balatucan
5
6   #include <iostream>
7
8   using namespace std;
9
10  struct group_facet: public numpunct<char> {
11      protected:
12          string do_grouping() const { return "\003"; }
13  };
14  void promptAndWait(int & an);
15  void dollarsToPeso(float convertrate1, unsigned dollarsIn);
16  void PesoTodollars(float convertrate2, unsigned pesoIn);
17
18  int main(){
19      float convertrate1 = 50.73, convertrate2 = 0.020;
20      unsigned dollarsIn, pesoIn;
21      int ch, an=0;
22
23      do{
24          system("cls");
25          cout << endl;
26          cout << "Dollar to Peso Conversion App" << endl;
27          cout << "[1] Dollar to Peso" << endl;
28          cout << "[2] Peso to Dollar" << endl;
29          cout << "[0] Exit the Coversion App" << endl;
30          cout << "Select Conversion : ";
31          cin >> ch;
32
33          switch(ch){
34              case 1:{
35                  cout << "\n<< Convert Dollar to Peso >>" << endl;
36                  dollarsToPeso(convertrate1, dollarsIn = 1);
37                  cout << "Enter a US dollar amount (without the dollar sign, commas or a decimal) : [#
38                  cin >> dollarsIn;
39                  dollarsToPeso(convertrate1, dollarsIn);
40                  promptAndWait(an);
41                  break;
42              }
43              case 2:{
44                  cout << "\n<< Convert Peso to Dollar >>" << endl;
45                  PesoTodollars(convertrate2, pesoIn = 1);
46                  cout << "Enter a PHP amount (without the peso sign, commas or a decimal) : [####] ";
47                  cin >> pesoIn;
48                  PesoTodollars(convertrate2, pesoIn);
49                  promptAndWait(an);
```

```
50                  break;
51              }
52          case 0:{
53              cout << "Conversion App Terminated \nThank you for using app!";
54              return 0;
55          }
56          default:{
57
58              cout << "Invalid Input!";
59              promptAndWait(an);
60              break;
61          }
62      }
63      }while(an == 1);
64  }
65  void promptAndWait(int & ans){
66      cout << "Do you want to continue? " << endl;
67      cout << "[1] YES" << endl;
68      cout << "[2] NO" << endl;
69      cin >> an;
70  }
71  void dollarsToPeso(float convertrate1, unsigned dollarsIn){
72      cout.setf(ios::fixed);
73      cout.precision(2);
74
75      cout.imbue(locale(cout.getloc(), new group_facet));
76      cout << "\n$" << dollarsIn << " US = " << (convertrate1 * dollarsIn) << " Pesos. \n";
77  }
78  void PesoTodollars(float convertrate2, unsigned pesoIn){
79      cout.setf(ios::fixed);
80      cout.precision(2);
81
82      cout.imbue(locale(cout.getloc(), new group_facet));
83      cout << "\nP" << pesoIn << " Php = " << (convertrate2 * pesoIn) << " US . \n";
84  }
```

V.   GitHub ACTIVITY LINK

https://github.com/Agadigi/cpf_lab

VI.   LEARNING OUTCOMES

My take away in this new coding that we do is I know understand how to use the proper using of void while inside the do and switch statement.

VII.   REFERENCES

PT2 Problem Set

Questions:

1. void dollarsToPeso, void PesoTodollars
2. float convertrate1, unsigned dollarsIn, float convertrate2, unsigned pesoIn
3. The use of this function is if the user wishes to continue to select on the menu again the loop statement will execute.
4. struct group_facet: public numpunct<char>
    cout.imbue(locale(cout.getloc(), new group_facet));
    cout.setf(ios::fixed);
    cout.precision(2)
5. When the condition is true it will execute and do again.
6. My take away in this new coding that we do is I know understand how to use the proper using of void while inside the do and switch statement