





COLLEGE OF ENGINERING AND COMPUTER STUDIES

MIDTERMS EXAMINATION

[Measurement Converter APP]

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Course & Section BSCS 1-1

Date 11/11/21





OUTCOMES OUTLINE

- I. DESCRIPTION
 Midterms Examination
- II. THEORETICAL FRAMEWORK

INPUT	PROCESS	OUTPUT
Meter	<pre>case 1:</pre>	Kilomete r
Kilomet er	<pre>case 2:</pre>	Meter
Kilomet er	<pre>case 3:</pre>	Miles



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```
cin >> KmInp1;
                          KilometerToMile(MeterConv,
         KmInp1);
                           Pause();//PAUSE FUNCTION
                           break;
Celsius
                                                         Fahrenhe
         case 4:
                                                             it
                           cout << "\n<< Convert</pre>
         Celsius to Farenheit >>" << endl;</pre>
                          cout << "Enter Celsius To</pre>
         Convert: ";
                           cin >> KmInp2;
                           CelsiusToFarenheit(Celsius
           KmInp2);
                          Pause();//PAUSE FUNCTION
                           break;
```

III. SCREEN SHOTS

A. Visual Studio Code

```
## Object Service (per to the Service (per to
```







B. Sample Input/Output

```
INPUT:
```



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```
case 4:
{
    cout << "\n<< Convert Celsius to Farenheit >>" << endl;
    cout << "Enter Celsius To Convert: ";
    cin >> Kminp2;
    CelsiusToFarenheit(Celsius, Kminp2);
    Pause()://PAMSE FUNCTION
    break;
}
cin.ignore(100, '\n');
cout << "\nPress any key to continue...";
cin.get();</pre>
 cout.setf(ios::fixed);
cout.precision(2);
 //FORMULA
MilesConv = 0.62137119223733;
 cout.setf(ios::fixed);
cout.precision(2);
//Format
cout.setf(ios::fixed);
cout.precision(2);
```

OUTPUT:







```
Measurement Converter App
[1] Meter To kilometer
[2] Kilometer To Meter
[3] Kilometer to Mile
[4] Celsius To Farenheit
[0] Exit the Coversion App
Select Conversion : 1
<< Convert Meter to Kilometers >>
Enter Meter/s To Convert: 1000
Converterd Result is: 0.10km
Press any key to continue...
 Measurement Converter App
<< Convert Kilomters To Meters >>
Enter Kilometer/s To Convert: 100
Converted Result is: 100000.00m
Press any key to continue...
 Measurement Converter App
[1] Meter To kilometer
[2] Kilometer To Meter
[3] Kilometer to Mile
[4] Celsius To Farenheit
[0] Exit the Coversion App
Select Conversion : 3
<< Convert Kilomters To Miles >>
Enter Kilometer/s To Convert: 150
Converted Result is: 93.21m
Press any key to continue...
 Measurement Converter App
<< Convert Celsius to Farenheit >>
Enter Celsius To Convert: 35
Converted Result is: 95.00 F
Press any key to continue...
Measurement Converter App
[1] Meter To kilometer
[2] Kilometer To Meter
[3] Kilometer to Mile
[4] Celsius To Farenheit
[0] Exit the Coversion App
Select Conversion: 0
Conversion App Terminated
Thank you for using the app!
PS C:\Users\63997\Downloads\LPU\CPF - LAB\Activities>
```

IV. PROGRAM SOURCE CODE

```
/*Name : Mike Villegas
Activity Name: Midterm Exam
Description : Length Converter
Date : 11/11/21 */
#include <iostream>
```





```
using namespace std;
// FUNCTION PROTOTYPES
void Pause();
void MeterToKilometer(float Minp, float KilometersConv);
void CelsiusToFarenheit(float Denom, float Input3);
void KilometerToMile (float MilesConv, float Input2);
void KilometerToMeter(float MeterConv, float Input1);
int main()
    //VARIABLE DECLARATIONS
    float KilometersConv = 0.0001; //Kilometer Conversion Factor
    float MeterConv = 1000; // Meter Conversion Factor
    double MilesConv = 0.62137119223733; //Mile Conversion Factor
[International]
    double Celsius,Farenheit,Denom = 1.8;//D is for the constant
denominator in farenheit conversion formula
    int MInp, KmInp1, KmInp, KmInp2, MiInp;
    int ch, ans=0;
    do{
        cout << endl;</pre>
        cout << "Measurement Converter App" << endl << endl;</pre>
        cout << "[1] Meter To kilometer"<< endl;</pre>
        cout << "[2] Kilometer To Meter"<< endl;</pre>
        cout << "[3] Kilometer to Mile" << endl;</pre>
        cout << "[4] Celsius To Farenheit" << endl;</pre>
        cout << "[0] Exit the Coversion App" << endl;</pre>
        cout << "Select Conversion : ";</pre>
        cin >> ch;
        switch(ch){
             case 1:
                 cout << "\n<< Convert Meter to Kilometers >>" << endl;</pre>
                 cout << "Enter Meter/s To Convert: ";</pre>
                 cin >> MInp;
                 MeterToKilometer(KilometersConv, MInp); // Show the
conversion by calling the function.
                 Pause(); //PAUSE FUNCTION
                 break;
```







```
case 2:
                 cout << "\n<< Convert Kilomters To Meters >>" << endl;</pre>
                 cout << "Enter Kilometer/s To Convert: ";</pre>
                 cin >> KmInp;
                 KilometerToMeter(MeterConv, KmInp);
                 Pause();//PAUSE FUNCTION
                 break;
             case 3:
                 cout << "\n<< Convert Kilomters To Miles >>" << endl;</pre>
                 cout << "Enter Kilometer/s To Convert: ";</pre>
                 cin >> KmInp1;
                 KilometerToMile(MeterConv, KmInp1);
                 Pause();//PAUSE FUNCTION
                 break;
             case 4:
                 cout << "\n<< Convert Celsius to Farenheit >>" << endl;</pre>
                 cout << "Enter Celsius To Convert: ";</pre>
                 cin >> KmInp2;
                 CelsiusToFarenheit(Celsius, KmInp2);
                 Pause();//PAUSE FUNCTION
                 break;
             case 0:
                 cout << "Conversion App Terminated \nThank you for using</pre>
the app!";
                 return 0;
             default:
                 cout << "Invalid Input!";</pre>
                 Pause();
                 break;
    }while(ans == 0);
```



```
} //End of main function
// Define the promptAndWait() function.
void Pause()
    cin.ignore(100, '\n');
    cout << "\nPress any key to continue...";</pre>
    cin.get();
// Define the dollarsToPeso function.
void MeterToKilometer(float KilometersConv, float Input)
    //FORMULA
    KilometersConv = 0.0001;
    //Format
    cout.setf(ios::fixed);
    cout.precision(2);
    //PRINTED OUTPUT
    cout << "Converterd Result is: " << (Input * 0.0001) << "km \n";</pre>
void KilometerToMeter(float MeterConv, float Input1)
    //FORMULA
    MeterConv = 1000;
    //Format
    cout.setf(ios::fixed);
    cout.precision(2);
    cout << "Converted Result is: " << (Input1 * 1000) << "m\n";</pre>
void KilometerToMile(float MilesConv, float Input2)
    //FORMULA
    MilesConv = 0.62137119223733;
    //Format
    cout.setf(ios::fixed);
    cout.precision(2);
    //PRINTED OUTPUT
```



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```
cout << "Converted Result is: " << (Input2 * 0.62137119223733) <<
"m\n";

}
void CelsiusToFarenheit(float Denom, float Input3)
{
    //FORMULA
    Denom = 1.8;
    //Format
    cout.setf(ios::fixed);
    cout.precision(2);

    //PRINTED OUTPUT
    cout << "Converted Result is: " << (Input3 * Denom ) + 32 << "°F\n";
}</pre>
```

V. GITHUB Link

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

VI. LEARNING OUTCOMES

I learned how to make and implement void functions with parameters.

VII. REFERENCES (If any...)

None





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