Fasih Ur Rehman

70135450

Lab/Class Tasks and Assignment

1. Celsius to Fahranheit:

```
#include<iostream>
using namespace std;

int main()
{
    float cel, far;
    cout<<"\nEnter the temperature in celsius "<<endl;
    cin>>cel;
    far = 1.8*cel+32;
    cout<<"The temperature in Fahranheit is "<<far<<endl;
    return 0;
}
```

2. Foot and Inches to Centimeter (Programs 1):

```
#include<iostream>
using namespace std;

int main()
{
    int feet, inches;
    float value, in;
    float Total_inches;

   cout<<"\nEnter the length in feets or feet.inches"<<endl;
    cin>>value; // for example: value = 34.5
    feet = value; // because feet is an integer then feet = 34
    in = value - feet; // in = 0.5
    if (in >= 0.1 && in <= 0.9) // true
        {
        inches = in * 10; // inches = 5
        }
    if (in >=0.10 && in <= 0.12) // false
        {
        inches = in * 100;
        }
```

```
    if (in == 0)
        {
        inches = 0;
        }

    Total_inches = feet*12 + inches; // 34 * 12 + 5 = 413
    cout<<"Total inches are "<<Total_inches<<endl;

    float centi = Total_inches * 2.54;
    cout<<"Total centimeters are "<<centi<<endl;

    return 0;
}
```

3. Foot and Inches to Centimeter (Programs 2):

```
#include<iostream>
using namespace std;

int main()
{
    int choice;
    int feet, inches;
    float value, in;
    float Total_inches;

    cout<<"\n1) feet without decimal"<<endl;
    cout<<"2) feet with decimal"<<endl;
    cin>>choice;

    switch (choice)
        {
        case 1:

            cout<<"Enter the length in feet"<<endl;
            cin>>feet;
            Total_inches = feet * 12;
            cout<<"Total inches are "<<Total_inches<<endl;
            break;

        case 2:

            cout<<"Enter the length in feet.inches"<<endl;
            cin>>value; // for example: value = 34.5
            feet = value; // because feet is an integer then feet = 34
            in = value - feet; // in = 0.5
            if (in >= 0.1 && in <= 0.9) // true
                {
```

```
                    inches = in * 10; // inches = 5
                }
            if (in >=0.10 && in <= 0.12) // false
                {
                    inches = in * 100;
                }
            if (in == 0)
            {
                inches = 0;
            }


            Total_inches = feet*12 + inches; // 34 * 12 + 5 = 413
            cout<<"Total inches are "<<Total_inches<<endl;
            break;

        default:
            cout<<"Please Enter the option mention above"<<endl;
            main();
            break;
        }

    float centi = Total_inches * 2.54;
    cout<<"Total centimeters are "<<centi<<endl;

    return 0;
}
```

4. Monthly Package and Bonus:

```
#include<iostream>
using namespace std;

int main()
{
    float sales, bonus;
    int jr, cr, ty;
    cr = 2023;

    cout<<"Enter the Totals Sales made for the month "<<endl;
    cin>>sales;


    {
        if (sales >= 5000 && sales < 10000 )
        {
            bonus = sales*3/100;
            cout<<"Employ recives 3 persent comition which is "<<bonus<<"$"<<endl;
```

```
        }
        if (sales = 10000)
        {
            bonus = sales*6/100;
            cout<<"Employ recives 6 persent comition which is "<<bonus<<"$"<<endl;
        }

    }

    cout<<"\nEnter the joining year of an employ"<<endl;
    cin>>jr;
    ty = cr - jr;

    {
        if (ty <= 5 && ty >= 1)
        {
            cout<<"This employ is working in this compony for "<<ty<<" years"<<endl;
            cout<<"The bonous is 10$ for this employ"<<endl;

        }
        else if (ty > 5)
        {
            cout<<"This employ is working in this compony for "<<ty<<" years"<<endl;
            cout<<"The bonous is 20$ for this employ"<<endl;

        }
        else
        {
            cout<<"Please enter the joining year"<<endl;
            main();

        }
    }

    cout<<"\n"<<endl;
    return 0;
}
```

5.

```
#include<iostream>
using namespace std;

int main()
{
    cout<<"          ________________________________                  "<<endl;
    cout<<"         /              ||               \\                 "<<endl;
    cout<<"        /               ||                \\                "<<endl;
    cout<<"       /                ||                 \\               "<<endl;
```

```
    cout<<" ____________________________________________________        "<<endl;
    cout<<" |                                                  |        "<<endl;
    cout<<" |                    My Car                        |        "<<endl;
    cout<<" __/----\\_____________________________________/----\\__        "<<endl;
    cout<<"   \\----/                                     \\----/          "<<endl;
    cout<<"                                                             "<<endl;
    return 0;
}
```