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**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;

}

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

1. #include<iostream>
2. using namespace std;
3. int main()
4. {
5. int feet, inches;
6. float value, in;
7. float Total\_inches;
8. cout<<"\nEnter the length in feets or feet.inches"<<endl;
9. cin>>value; // for example: value = 34.5
10. feet = value; // because feet is an integer then feet = 34
11. in = value - feet; // in = 0.5
12. if (in >= 0.1 && in <= 0.9) // true
13. {
14. inches = in \* 10; // inches = 5
15. }
16. if (in >=0.10 && in <= 0.12) // false
17. {
18. inches = in \* 100;
19. }
20. if (in == 0)
21. {
22. inches = 0;
23. }
25. Total\_inches = feet\*12 + inches; // 34 \* 12 + 5 = 413
26. cout<<"Total inches are "<<Total\_inches<<endl;
28. float centi = Total\_inches \* 2.54;
29. cout<<"Total centimeters are "<<centi<<endl;
30. return 0;
31. }
32. **Foot and Inches to Centimeter (Programs 2):**
33. #include<iostream>
34. using namespace std;
35. int main()
36. {
37. int choice;
38. int feet, inches;
39. float value, in;
40. float Total\_inches;
41. cout<<"\n1) feet without decimal"<<endl;
42. cout<<"2) feet with decimal"<<endl;
43. cin>>choice;
44. switch (choice)
45. {
46. case 1:
47. cout<<"Enter the length in feet"<<endl;
48. cin>>feet;
49. Total\_inches = feet \* 12;
50. cout<<"Total inches are "<<Total\_inches<<endl;
51. break;
53. case 2:
55. cout<<"Enter the length in feet.inches"<<endl;
56. cin>>value; // for example: value = 34.5
57. feet = value; // because feet is an integer then feet = 34
58. in = value - feet; // in = 0.5
59. if (in >= 0.1 && in <= 0.9) // true
60. {
61. inches = in \* 10; // inches = 5
62. }
63. if (in >=0.10 && in <= 0.12) // false
64. {
65. inches = in \* 100;
66. }
67. if (in == 0)
68. {
69. inches = 0;
70. }

73. Total\_inches = feet\*12 + inches; // 34 \* 12 + 5 = 413
74. cout<<"Total inches are "<<Total\_inches<<endl;
75. break;
77. default:
78. cout<<"Please Enter the option mention above"<<endl;
79. main();
80. break;
81. }
83. float centi = Total\_inches \* 2.54;
84. cout<<"Total centimeters are "<<centi<<endl;
85. return 0;
86. }

**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;

}