

If (multi-conditional) Statements

```

using namespace std;
#include <iostream>

int main ()
{int id;
    double gross, hours, rate, net, fed, state, fica, total;
    //-----
    cin >> id >> hours >> rate;
    //-----
    gross = hours* rate;
    fed=gross*0.2;
    state=gross*0.05;
    fica=gross*0.0765;
    total=fed+state+fica;
    net = gross-total;
    //-----
    cout.setf(ios::fixed);
    cout.setf(ios::showpoint);
    cout.precision(2);
    cout << "Gross : $" << gross << "\t";
    cout << "Hours : " << hours << endl;
    cout << "Rate : " << rate << endl;
    cout << "net : " << net << endl;
}
return (0);
}

```

This section of code is implemented in a table as follows:

Gross	Federal tax rate	State tax rate
0-200	0	0
>200and<= 400	15%	3%
>400and<= 800	27%	4%
>8	31%	5%

The program only reaches each successive *else if* if a previous comparison has not been selected.

```

using namespace std;
#include <iostream>

int main ()
{int id; double fedtaxrate, statetaxrate;
    double gross, hours, rate, net, fed, state, fica, total;
    //-----
    cin >> id >> hours >> rate;
    //-----
    gross = hours* rate;
    if (gross <=200) ←
    { fedtaxrate=0;
        statetaxrate=0;
    }
    else if (gross <=400) ←
    { fedtaxrate=0.15;
        statetaxrate=0.03;
    }
    else if (gross <=800) ←
    { fedtaxrate=0.27;
        statetaxrate=0.04;
    }
    else ←
    { fedtaxrate=0.31;
        statetaxrate=0.5;
    }
    fed=gross*fedtaxrate;
    state=gross*statetaxrate;
    fica=gross*0.0765;
    total=fed+state+fica;
    net = gross-total;
    //-----
    cout << "Gross : $" << gross << "\t";
    cout << "Hours : " << hours << endl;
    cout << "Rate : " << rate << endl;
    cout << "net : " << net << endl;
}
return (0);
}

```

If the gross pay is less than or equal to 200, then the program set the federal and state tax rates to zero and proceeds to the next section.