Ex1:

```cpp
#include <iostream>

using namespace std;

int main()
{
    int number;
    cout << "Enter an integer" << endl;
    cin >> number;
    if(number > 0)
    {
        cout << number << " is a positive integer" << endl;
    }
    else if(number == 0)
    {
        cout << number << " is 0" << endl;
    }
    else
    {
        cout << number << " is a negative number" << endl;
    }
}
```

Ex2:

```cpp
int a = 100;
if(a > 20){
    cout << "a is bigger than 20";}
else{
    cout << "a is not bigger than 20";
}
```
Ex3:

double normal=36.5;
    int temperature;

    cout << "Please enter temperature" << endl;
    cin >> temperature;

    if (temperature > normal){
        cout << "You are ill go to doctor" << endl;
    }
    else if (temperature == normal){
        cout << "Your temperature is normal" << endl;
    }
    else {
        cout << "Just go to study!" << endl;
    }

Ex4:

    int quiz;
    int midterm;
    int fin;
    int total;

    cout<<"Please enter your quiz result, and midterm result, and final result"<<endl;
    cin>>quiz>>midterm>>fin;
    total=((quiz*0.2)+(midterm*0.35)+(fin*0.45));
    if(total>=95){
        cout<<"You took A"<<endl;
    }
else if((total<95)&&(total>85))
    cout<<"You took B"<<endl;
}
else if((total>75)&&(total<85))
    cout<<"You took C"<<endl;
else if((total<75)&&(total>65))
    cout<<"You took D"<<endl;

}
else{
    cout<<"you failed"<<endl;
}

Ex5:
int hours;
float rate;
float total_paymets;
cout<<"Please enter hours,rate";
cin>> hours>> rate ;
if(hours<=40)
{
    total_paymets=rate*hours;
    cout<<"total payments is"<< total_paymets<<endl;}
else if(hours>40){
    total_paymets=40*rate+ (hours-40)*rate*2 ;
    cout<<"the total payments is"<< total_paymets<<endl;
}
**Ex6:**

```cpp
int score;
int attendance;
int min_pass_grade;
cout<<"Please enter 1 or 0 for attendance"<<endl;
cin>>attendance;
if(attendance==0)
    cout<<"You failed because of attendance"<<endl;
else if(attendance==1){
    cout<<"Enter your score"<<endl;
cin>>score;
    if(score>=55)
        cout<<"You passed"<<endl;
    else
        cout<<"You failed because of your score"<<endl;
}
```

**Ex7:**

```cpp
int a=10;
int b=20;
int c=30;
if(a>15){
    b=35;
c=67;
a=15;}
cout<<"a is "<<a<<" b is "<<b<<" c is "<<c;
```
Ex8:

```cpp
int age;
cout<<"Please enter your age"<<endl;
cin>>age;
if(age<35)
    if(age<20)
        cout<<"You are very young"<<endl;
    else{
        cout<<"You are young"<<endl;
    }
```