

# C++程式設計 HW4 report 103061223 李俊穎

This homework we need to write a decision tree to deal the result in the different condition, and use decision tree to run the variable data. Then the four variable about the weather test us how to use if-else loop and switch-case correctly. Compared with if-else, the lines of switch-case codes is fewer than if-else. But I think the concepts of switch case should spend more time to understand because the usage of case is more special than the others function. The following is my code :

```
for(i=0;i<14;i++)
{
    cout<<"please enter the outlook,temp,humidity,windy"<<endl;
    cin>>outlook>>temp>>humidity>>windy;
    if(outlook=="sunny")
    {
        if(humidity<=75.0)
        ,           play="yes";  }
        else{cout<<"no"<<endl;  play="no";}
    }
    else if(outlook=="overcast")
    {
        cout<<"yes"<<endl;
        play="yes";           }
    else if(outlook=="rainy")
    {
        if(windy=="false")
        {      cout<<"yes"<<endl;  play="yes";}
        else
        {      cout<<"no"<<endl;    play="no";  }
    }
    else
    {      cout<<"wrong"<<endl;  }
```

The above is the usage about if-else. Because the txt file given by the problem have fourteen data, I add the for loop to make it input all the data at the same time and end the loop, and use the nested if statements to judge the condition. Be careful for the data type and definite the variables in double, then the homework will be done. The method of using switch-case is similar to if-else. However, in switch-case homework ,I still use a if-else

loop to judge the humidity's range before it enter the switch-case loop because switch cannot use string to compare big and small directly. Although I think there are others methods to solve the problem, but it is only way what I can figure out.