

## ELSE IF STRUCTURE IN A WHILE LOOP

```
#include <iostream>

#include <string>

using namespace std;

using std::cout;

using std::cin;

using std::endl;

int main()
{

    string grade;

    int aCount;

    int bCount;

    int cCount;

    int dCount;

    int fCount;

    aCount=0;

    bCount=0;

    cCount=0;

    dCount=0;

    fCount=0;

    cout<<"Enter the letter grades."<<endl;

    cout<<"Enter the EOF character to end input\n";

    while (grade!="EOF")
```

```

    {

cin>>grade;

    if (grade=="A" || grade=="a")
    {

        ++aCount;
    }

        else if (grade=="B" || grade=="b")
        {
            ++bCount;
        }

        else if (grade=="C" || grade=="c")
        {
            ++cCount;
        }

        else if (grade=="D" || grade=="d")
        {

            ++dCount;
        }

        else if (grade=="F" || grade=="f")
        {
            ++fCount;
        }

        else if (grade=="EOF" || grade=="eof")
        {
            cout<<"Input end\n";

```

```
}

    else {
        cout<<"Incorrect grade entered.\n";
        cout<<"Enter correct grade"<<endl;
    }
}

cout<<"\n\nTotals for each letter grade are:";
cout<<"\nA: "<<aCount;
cout<<"\nB: "<<bCount;
cout<<"\nC: "<<cCount;
cout<<"\nD: "<<dCount;
cout<<"\nF: "<<fCount<<endl;

system ("pause");
return 0;
}
```