

```

// Program Shell1 prints appropriate messages based on a
// grade read from the keyboard.

#include <iostream>
using namespace std;

int main ()
{
    int grade;

    cout << "Enter an integer grade between 50 and 100."
         << " Press return. " << endl;
    cin >> grade;

    if /* TO BE FILLED IN */
        cout << "Congratulations!" << endl;
    return 0;
}
//*****

// Program Shell1a prints appropriate messages based on a
// grade read from the keyboard.

#include <iostream>
using namespace std;

int main ()
{
    int grade;

    cout << "Enter an integer grade between 50 and 100."
         << " Press return. " << endl;
    cin >> grade;

    if (grade>=90 && grade<=100)
        cout << "Congratulations!" << endl;
    if (grade>=80 && grade<=89)
        cout << "Try harder" << endl;
    if (grade>=70 && grade<=79)
        cout << "Average" << endl;
    if (grade>=60 && grade<=69)
        cout << "Need help" << endl;
    if (grade<=59)
        cout << "Try again" << endl;

    system("PAUSE");
    return 0;
}

//*****

// Program Shell1b prints appropriate messages based on a
// grade read from the keyboard.

#include <iostream>
using namespace std;

```

```

int main ()
{

    int grade;
    char letterGrade;

    cout << "Enter an integer grade between 50 and 100."
        << " Press return. " << endl;
    cin >> grade;

    if (grade>=90 && grade<=100)
    {
        cout << "Congratulations!" << endl;
        letterGrade='A';
    }
    else if (grade>=80 && grade<=89)
    {
        cout << "Try harder" << endl;
        letterGrade='B';
    }
    else if (grade>=70 && grade<=79)
    {
        cout << "Average" << endl;
        letterGrade='C';
    }
    else if (grade>=60 && grade<=69)
    {

        cout << "Need help" << endl;
        letterGrade='D';
    }
    else if (grade <= 59)
    {

        cout << "Try again" << endl;
        letterGrade='F';
    }
    else
        cout << "Faulty data." << endl;
    cout<<"Your letter grade is "<<letterGrade<<endl;

    system("PAUSE");
    return 0;
}
//*****
// Program Shelllc prints appropriate messages based on a
// grade read from the keyboard.

```

```

#include <iostream>
using namespace std;

```

```

int main ()
{

    int grade;
    char letterGrade;

```

```

    cout << "Enter an integer grade between 50 and 100."
        << " Press return. " << endl;
    cin >> grade;
if (cin) //to test the state of the cin stream for invalid data
{
    if (grade>=90 && grade<=100)
        letterGrade='A';
    else if (grade>=80 && grade<=89)
        letterGrade='B';
        else if (grade>=70 && grade<=79)
            letterGrade='C';
            else if (grade>=60 && grade<=69)
                letterGrade='D';
                else if (grade <= 59)
                    letterGrade='F';
                    else
                        cout << "Faulty data." << endl;

// cout<<"Your letter grade is "<<letterGrade<<endl;
// letterGrade ='z';

switch (letterGrade)
{
    case 'A': cout<<"Your letter grade is "<<letterGrade<<endl;
                cout << "Congratulations!" << endl;
                break;
    case 'B': cout<<"Your letter grade is "<<letterGrade<<endl;
                cout << "Try harder" << endl;
                break;
    case 'C': cout<<"Your letter grade is "<<letterGrade<<endl;
                cout << "Average" << endl;
                break;
    case 'D': cout<<"Your letter grade is "<<letterGrade<<endl;
                cout << "Need help" << endl;
                break;
    case 'F': cout<<"Your letter grade is "<<letterGrade<<endl;
                cout << "Try again" << endl;
                break;
    default : cout<<letterGrade<<" is not a valid letter grade.";
                break;
}

}

else
    cout << "Faulty data.....goodbye" << endl;

    system("PAUSE");
    return 0;
}

```