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// Division Program
// Divisend and divisor are prompted for and read.
// If divisor is 0, division is not performed;
// otherwise, division is performed and result is printed.
#include <iostream>
using namespace std;
int main()
  int dividend;
  int divisor;
  int result;
  cout << "Enter dividend and divisor" << endl;</pre>
  cin >> dividend >> divisor;
  if (divisor != 0)
    result = dividend / divisor;
cout << "Result is " << result << endl;</pre>
  else
    cout << "Division by zero is not allowed." << endl;</pre>
   result = 9999;
  return 0;
}
// Program Area demonstrates stream testing
#include <iostream>
#include <fstream>
using namespace std;
int main()
                       // one side of a rectangle
    int side1;
                       // the other side of a rectangle
    int side2;
    ifstream inData; // file stream
    int area;
                       // area of rectangle
    inData.open("myData.dat");
    if (!inData)
        cout << "Input file not found." << endl;</pre>
        return 1;
    inData >> side1 >> side2;
    if (!inData)
        cout << "Data format incorrect.";</pre>
        return 2;
    area = side1 * side2;
    cout << "Area is " << area << endl;</pre>
    return 0;
CONTENTS OF DATA FILE myData.dat
5 5
The lowest value of the three is printed with an appropriate message.
Assumption: YOu are to create a data file with three scores and that the three scores are unique.*/
#include <iostream>
using namespace std;
int main ()
    int test1Score;
    int test2Score;
    int test3Score;
   /* cout << "Enter score for test 1; press return." << endl;
    cin >> test1Score;
```

//***************

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cout << "Enter score for test 2; press return." << endl;</pre>
   cin >> test2Score;
   cout << "Enter score for test 3; press return." << endl;</pre>
   cin >> test3Score;*/
   /*WRITE CODE TO OPEN AND READ DATA FROM FILE*/
    /*VALIDATE THE INPUT FILE STREAM TO CHECK IF DATA FILE HAS BEEN
   OPENED AND THAT THE DATA MATCHES THE VARIABLES IN WHICH THEY WILL BE STORED*/
   cout << "The three test scores are: " << endl;</pre>
   cout << test1Score << end1;</pre>
   cout << test2Score << endl;</pre>
   cout << test3Score << endl;</pre>
   /*WRITE LOGICAL EXPRESSIONS IE., IF-THEN-ELSE STATEMENTS TO DETERMINE LOWEST SCORE*/
   system("PAUSE");
   return 0;
}
#include<iostream>
using namespace std;
int main()
{
   int grade;
   char letterGrade;
   cout<<"Please enter a raw score for a letter grade: ";</pre>
   cin>>grade;
   if(cin)
   if(grade>=90 && grade<=100)
       letterGrade='A';
   else if (grade>100)
       {
       cout<<"Faulty data....goodbye"<<endl;</pre>
       return 1;
   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)</pre>
   letterGrade='F';
   cout<<"For a score of "<<grade<<" the Letter Grade is "<<letterGrade<<endl;</pre>
   else
   cout<<"INVALID DATA....Goodbye"<<endl;</pre>
   system("PAUSE");
   return 0;
}
// Notices program
// This program determines (1) a student's average based on three
// test scores and (2) the student's passing/failing status
#include <iostream>
#include <iomanip>
                   // For setprecision()
```

```
using namespace std;
int main()
{
                           // Average of three test scores
    float average;
    long studentID;
                           // Student's identification number
                           // Score for first test
    int test1;
    int test2;
                           // Score for second test
                           // Score for third test
// True if data is correct
    int test3;
bool dataOK;
    cout << fixed << showpoint;</pre>
                                                // Set up floating pt.
                                                // output format
    // Get data
    cout << "Enter a Student ID number and three test scores:"</pre>
         << endl;
    cin >> studentID >> test1 >> test2 >> test3;
    cout << "Student number: " << studentID << " Test Scores: "</pre>
         << test1 << ", " << test2 << ", " << test3 << end1;
    // Test data
    if (test1 < 0 || test2 < 0 || test3 < 0)
        dataOK = false;
    else
        dataOK = true;
    if (dataOK)
        // Calculate average
        average = float(test1 + test2 + test3) / 3.0;
        // Print message
        cout << "Average score is "
              << setprecision(2) << average << "--";
        if (average >= 60.0)
            cout << "Passing";</pre>
                                                  // Student is passing
            if (average < 70.0)
    cout << " but marginal";</pre>
                                                  // But marginal
            cout << '.' << endl;
        else
                                                  // Student is failing
            cout << "Failing." << endl;</pre>
                                                  // Invalid data
        cout << "Invalid Data: Score(s) less than zero." << endl;</pre>
    system ("PAUSE");
    return 0;
```

}