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//Goal: Read in student's name and grade, calculate letter grade, and produces a summary report.

//Headers or Preprocessor Directives:

#include "pch.h"

#include <iostream>

#include <string>

using namespace std;

//Prototypes:

void getData(string &studentName, double &studentGrade);

char calculateLetterGrade(double studentGrade);

void showResults(string studentName, double studentGrade, char letterGrade);

int main()

{

string studentName;

double studentGrade;

char letterGrade;

getData(studentName, studentGrade);

letterGrade = calculateLetterGrade(studentGrade);

showResults(studentName, studentGrade, letterGrade);

return 0;

}

//user-defined methods:

void getData(string &studentName, double &studentGrade)//passing by reference, allowing this function access to read & write to the requested variables from the main

{

cout << "\nEnter student name: ";

getline(cin, studentName);

cout << "\nEnter grade [0 - 100]: ";

cin >> studentGrade;

}

char calculateLetterGrade(double studentGrade)

{

if (studentGrade >= 75)

return 'P';

else

return 'F';

}

void showResults(string studentName, double studentGrade, char letterGrade)

{

cout << "\n Name: " << studentName

<< " Grade: " << studentGrade

<< " Letter: " << letterGrade

<< endl;

}

