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********************************************************************************
    Author: Jessica Schuler
    Date Created: 10-13-13
    Filename: A2grades.cpp
    Overview:
                            This program will calculate a percentage based on grades
        entered for a variable amount of assignments.
    Input:
        The user will input number of assignments, grade earned,
        and total points for the assignments.
    Output:
        The output will be total points earned, total points of
        all assignments, and percentage earned.
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## \#include<iostream>

using std::cout;//I entered this and the following 2 because some c++ sites using std::cin;// have noted this is good pratice rather than just using using std::endl;// the using namespace std. using namespace std;

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int main()
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\{
int num ass; //variable for number of assignments
int num earn;// variable for points earned
int num_total;//variable for points total
int count = 1;//counter to track input
float TP_earn = 0;//total of all earned points
float TP_Total = 0;//total of all points possible
//ask user for number of assignments to be calculated
cout<<"Enter the Total number of Assignments to be calculated: ";
cin>>num_ass;
//into to next section showing the number of assignments they entered
cout<<"Now enter the points earned and total points for "<<num_ass<<"
assignments.";
cout<<endl; //blank line for readiblity
while (count++<=num_ass) //while statement based on count being equal to number
\{ //input by the user
cout<<"Enter the Points earned on the assignment: ";
cin>>num_earn;
cout<<"Enter the Total points for the assignment: ";
cin>>num total;
TP earn = TP earn + num earn;//this adds the points earned to the total
$T P_{-}^{-}$Total $=T \bar{P}$ _Total + num_total;//this adds the total points earned to the
total
count+1;//this adds 1 to the count
\}
//the following shows the output: total points, points possible, average
cout<<"Total points earned is: "<<TP_earn<<endl;
cout<<"Total points possible is: "<<TTP_Total<<endl;
cout<<"Your Average is: "<<((TP_earn)/(TP_Total)*100)<<"\%"<<endl;
return 0;
\}

