```
/***********************
       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.
****************************
#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;
int main()
     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</pre>
     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: ";</pre>
           cin>>num earn;
           cout<<"Enter the Total points for the assignment: ";</pre>
           cin>>num total;
           TP earn = TP earn + num earn; //this adds the points earned to the total
           TP Total = TP 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;</pre>
     cout<<"Total points possible is: "<<TP Total<<endl;</pre>
     cout<<"Your Average is: "<<((TP earn)/(TP Total)*100)<<"%"<<endl;</pre>
     return 0;
}
```