The programming assignment is to practice the if condition as well as while, do while, and for loops.

Program: GPA calculate

- 1. Define a function to print out "Welcome to the GPA calculation program!"
- 2. Define a function that:
 - i. Print out a sentence to guide the user to do the below input
 - ii. Read in data from keyboard for a person's name and the grades for classes.
 - 1. Computer science, credits 4
 - 2. English, credits 3
 - 3. Writing, credits 3
 - 4. data mining, credits 4
 - 5. math, credits 2
 - iii. Calculate the average GPA of each person (round the GPA to 1 digit)
 - 1. 90 < Grade <=100: gpa 4.0
 - 2. 85 < Grade <=90: gpa 3.5
 - 3. 80 < Grade <=85: gpa 3.0
 - 4. 75 < Grade <=80: gpa 2.5
 - 5. 70 < Grade <=75: gpa 2.0
 - 6. 60< Grade <=70: gpa 2.0
 - 7. Grade <=60: gpa 1.0

The average gpa = the corresponding GPA for the grade of class1 * the class credit + the corresponding GPA for the grade of class2 * the class credit + ...

For example, if a person Katy's grade for the above five classes is: 100, 100, 80, 90, 100

the corresponding gpa of each class is:

4.0, 4.0, 2.5, 3.5, 4.0

The average gpa = 4.0*4 + 4.0*3 + 2.5*3 + 3.5*4 + 4.0*2 = 3.6

- iv. Return the average GPA to the main function
- 3. In the main function:
 - a. Call the function (defined in step 2) 10 times to read in and calculate the average gpa of 10 people.
 - b. Each time, after calling the function, print out the name and average gpa on the terminal. For example:

Katy 3.6

c. The final printed out results would be 10 rows:

Katy 3.6 Josh 3.6

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