Assignment 3

BUSA 523

due: Feb 14th, 11:59 PM

1. Create a class to store student records. Each student has a first name, last name, country, overall grade (0 - 4.0 scale), credits completed (total 30) and major. Create a method within this class to evaluate student progress. **(20)**
    a. **Progress - "Good":** if grades are above 3.0 and credits completed is greater than 20
    b. **Progress - "Average":** if grades are above 2.5 or credits completed is between 10 and 20
    c. **Progress - "Good":** if grades are below 2.5

2. Write a function which separates the positive and negative numbers from a list of numbers. **(20)**

    Input: *[-6, 5, -3, -2, 1, 0, -8, 9, 3]*
    Output: *[-6, -3, -2, -8], [5, 1, 9, 3]*

3. Write a function which outputs all winning possibilities for a given player's score. Assume the score is always greater than 15 and the dealer is dealt only 2 cards. **(40)**

    Input - 18 (player's final score)
    Output - [(9,10), (10,11), (10,10), (11,9), (11,8)]
    Notes:
    - No need to specify face cards separately, you can use the value "10"
    - (11,11) is not a winning combination

    https://u.osu.edu/sdp12d1/user-manual/ (BlackJack - rules)

4. Calculate the number of steps & Big O order for the programs in question 2 and 3. **(20)**