Mock Test 2

This is a mock test for which you will not get a grade. Create the following programs. Save the programs in files with the names shown in parentheses (p1.py, p2.py, p3.py, …). Apart from the function definition, do not include in files any other statements.

(p1.py) The playing cards have the following values: Ace (A), King (K), Queen (Q), Jack (J) and 10 (T) have a value of 10 each. The other cards have the value indicated by the card number. Create a function f(player1,player2) that returns true if the first player has cards of higher value, and false otherwise. Example:  
f("AJ972","AQT72") => False  
f("9532","K8") => True  
f("987","AT4") => False

(p2.py) Create a function f(human\_age) that returns a dog's age in dog’s years. For the first two years, each dog year is equal to 10 human years. After that, each dog year is equal to 4 human years. Example:  
f(15) => 72  
f(2) = > 20

(p3.py) Create a function f(array2D) that returns a one-dimensional array containing the sums of the columns in a given two\_dimensional array. Example:  
f([ [3,6,2,7], [9,5,4,0], [2,8,0,9] ]) => [14,19,6,16]

(p4.py) Create a function f(dictionary,x,y) that returns the sum of numbers in the range <x,y> contained in the dictionary. Example:  
f({"arr1":[4,5,6], "arr2":[7,5]}, 5, 6) => 16  
f({"arr1":[2,6,5], "arr2":[7,1], "arr3":[2,9,8,1]}, 5, 10) => compare results with other students

(p5.py) Create a function f(first\_letter,last\_letter) that, for the data.txt file, returns the number of words that start with the first\_letter and end with the last\_letter. Example:  
f("w", "d") => compare results with other students

(p6.py) Create a function f(age, course, average) that, for the data.json file, returns the number of students who have at least the given number of years and have at least the given grade average in the given course. Example:  
f(21, "statistics", 4) => compare results with other students