Introduction to Python I (Exercises 04)   Functions

1) Write a function that receives a float number indicating the radius of a circle.

   The function should calculate the area of the circle according to the following equation:

   area = PI x radius^2 (you can approximate Pi to 3.1415)

   Return the area to the calling section of the program. Test it.

2) Write a function that receives 3 parameters. The first parameter is a positional parameter (it is mandatory to pass the parameter, there are no default values). The other two parameters contain default values (The default values are 1 and 10 respectively).

   As in: def myfunction(myvalue, defvalue1 = 1, defvalue2=10):
                        totalvalue = (myvalue * defvalue2) + 1
                        return totalvalue

   Test you function for each of the following cases:

   4.1 myfunction(1)
        myfunction(10)
        myfunction(1,1)
        myfunction(1,1,5)
        myfunction(10,defvalue2 = 5, defvalue1=10)
        myfunction(10,defvalue2 = 5)

   What happens in these cases?

        myfunction(defvalue1 = 2)
       myfunction(defvalue1 = 2, defvalue2 = 10)
        myfunction()
        myfunction(1, defvalue3 = 5)