Design an interactive product management system using Python fuctions.

1) display system functions

function name: show_functions

Parameters: None

Return:

The user choice

Description:

This function prints out all possible functionalities of the system to let users choose. The output should look like the following:

- * 1. Generate overall stats for all products (total #, avg #, min, and max)
- * 2. Calculate the amount for a given product
- * 3. Update the amount for a given product

2) Generate overall stats for all products

function name: gen stats

Parameters:

None

Return:

None

Description:

Generate all basic stats of all products, such as the total amount for all products, the average, the maximum and the minimum.

3) calculate the amount of a given product

function name: check stock()

Parameters:

Product name

Return:

The number in stock for that product

Description

Retrieve the corresponding number in stock for a given product. The given product is obtained from the user (raw_input).

4) update the amount for a give product

function name: update stock()

Parameters:

The stock dictionary, a given product, the number (positive means increase, negative means decrease)

Return:

None

Description:

Update the number in stock for a given product. The stock dictionary also needs to be updated.

Note: 1. the system is always running until the user stops it. (You can use infinite loop with break statement somewhere in the loop)

2. You can design a main function which will be the starting point when you execute the entire program. Please use the following codes. Main function is also a function like others.

def	main():	
	place your codes here	
	F 9	
if_	_name == 'main': main()	