04.3 - Avg Grade

Write a program that asks the user to enter a valid score five times. The program should display a letter grade after each score is entered. After all the scores are entered, it should display the average of the scores and the letter grade corresponding to that average.

Complete your program by writing the following three functions and calling them from within your main function.

get_valid_score This function should ask the user to enter a score. If the score is less than 0 or greater than 100, the function should ask the user to re-enter a score, until the user enters a valid one. Finally, the function returns the valid score.

calc_average This function should accept a list of scores as its only argument and return the average of the scores. It should be able to handle lists of any length.

determine_grade This function should accept a score as an argument and return a letter grade for the score based on the grading scale in Table 1a.

Score	Grade
92 - 100	A
[82 - 92)	В
[73 - 82)	C
[64 - 73)	D
[0-64)	F
(a)	

Input	Output
Score	Grade
89	В
75	C
91	В
82	В
64	D
Average	80.20
Grade	С
(b)	

Input	Output
Score	Grade
93	A
-7	Invalid Input.
101	Invalid Input.
100	A
0	F
82	В
65	D
Average	68.00
Grade	D
	(c)

Table 1: The grading scale (a), and two test cases (b), and (c) for exercise 04.3.

Test your program with the data in Tables 1b and 1c. Finally, format your program to match the sample output, character for character, including all white space and punctuation. User input in the sample has been highlighted in Pappy's Purple to distinguish it from the program's output, but your user input does not need to be colored. Save your program as avg_grade_login.py, where login is your Purdue login. Then submit it along with a screen-shot showing a run of **both** test cases.

Terminal \$ python avg_grade_login.py Enter a score: 93 The letter grade for 93.0 is A. Enter a score: -7 Invalid Input. Please try again. Enter a score: 101 Invalid Input. Please try again. Enter a score: 100 The letter grade for 100.0 is A. Enter a score: ∅ The letter grade for 0.0 is F. Enter a score: 82 The letter grade for 82.0 is B. Enter a score: 65 The letter grade for 65.0 is D. Results: The average score is 68.00. The letter grade for 68.00 is D.