

**m1: Responsible of (Creating Functions, Preparing Services)**

**m2: Responsible of (Problem Solving, Prepare Output)**

m1

8

32

m2

8

32

	#	ITEM	Excellent	Good	Bad	Res.
			4	2	1	
Functions	1	Modules (Python Files)	Your application should consists with at least 2 Modules (files): a.one of them is the main module. b.the other is for Function Definitions.	modules are not arranged properly	no modules	m1
	2	Functions	Two Functions you make them by your own so that: - Functions should has parameter if needed. - Functions should has default parameter if needed. - Functions should has return values if needed.	one function	no functions	m1
	3	PyPi (BONUS)	include some package in your solution.	N/A	N/A	m1
problem	4	List	the program should include a List, Set or Map.	bad list	no list	m2
	5	Loop	the program should includes at least one loop among the list.	bad or meaningless loop	no loop	m2
	6	randomization	use Random somewhere in your solution	bad or meaningless random	no random	m2
	7	PyPi (BONUS)	include some package in your solution.	N/A	N/A	m2

input and output	8	DATA INPUT	Your application should take data list from *.csv file so that: - The file should include first row as Header - After the header, each row represents some object. - In each row, each cell contains a separate data about the object.	bad csv file	no csv file	m1
	9	DATA OUTPUT	- ALL numbers should be formatted using f"..... { } ...." - data should be formatted as table.	bad format	no format	m2
TEST	10	Module Test	Every Module should has a special code that testing all Functoins in that module. Hint: use ( if __name__ == '__main__' : )	test is failed in some cases	test is totally failed	m1
	11	Redirect User Input	User input should be redirected from input file (input.txt) - Make at least 4 different input files (input1.txt, - inpute2.txt...etc), and put different inputs in each file.	bad input file or less than 4 files	no input file	m2
	12	Manual Test	Some manual test is done and the final output is reported.	test is failed in some cases	test is totally failed	m2

Source code Documen tation	13	Module Commens (File Header)	Every module has a Header comment includes: - Explination the pourpose of this module. - some examples of using this module - URL links (if any) - Author name - Issue Date <a href="https://stackoverflow.com/questions/1523427/what-is-the-common-header-format-of-python-files">https://stackoverflow.com/questions/1523427/what-is-the-common-header-format-of-python-files</a>	not completed	no header	m1
	14	problem comments	above each sort of lines a comment should be inserted to describe what is happening.	bad comments	no comments at all	m1
Reliabili ty	15	Errors	No run-time errors (for m1's code)	1 runtime errors	2 or more	m1
	16	Errors	No run-time errors (for m2's code)	1 runtime errors	2 or more	m2