Assignment Day 2 | 9th November 2020

For any doubts regarding the assignment, ask questions in the Data Science 101 B1 Group in the Community.
Submit Assignments by 16th November 2020 11:59 PM.

Assignment Submit Form : https://letsupgrade.in/ds101submission
Submit assignments in Appropriate Dropdowns.

Questions 1:

Create an empty list. Accept 10 numbers from the user and append to it the list if it is an even number.

Questions 2:

Create a notebook on LIST COMPREHENSION. This exercise is to put you in a Self learning mode

Questions 3:

You have seen in the videos how powerful dictionary data structure is.
In this assignment, given a number n, you have to write a program that generates a dictionary d which contains (i, i*i), where i is from 1 to n (both included).
Then you have to just print this dictionary d.
Example:
Input: 4
will give output as
{1: 1, 2: 4, 3: 9, 4: 16}
Input Format:
Take the number n in a single line.
Output Format:
Print the dictionary d in a single line.

Example:
Input:
8
Output:
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64}

Questions 4:

There is a robot which wants to go the charging point to charge itself.
The robot moves in a 2-D plane from the original point (0,0). The robot can move toward UP, DOWN, LEFT and RIGHT with given steps.
The trace of robot movement is shown as the following:
UP 5
DOWN 3
LEFT 3
RIGHT 2
Then, the output of the program should be:
2
The numbers after the direction are steps.
Write a program to compute the distance between the current position after a sequence of movement and original point. If the distance is a float, then just print the nearest integer (use round() function for that and then convert it into an integer).
Input Format:
The first line of the input contains a number n which implies the number of directions to be given.
The next n lines contain the direction and the step separated by a space.
Output Format:
Print the distance from the original position to the current position.
Example:
Input:
4
UP 5
DOWN 3
LEFT 3
RIGHT 2
Output:
2

FAQs

Q. How to upload a jupyter notebook as a part of an assignment?

A. 1. Click "File" option in notebook
2. Go to "Download As" -> "Notebook(.ipynb)"
3. Upload the downloaded .ipynb file to github and share the link in google form.

Q. When do I submit the Assignments and how?

A. The assignments for the week should be submitted by 16th November, Monday 11:59 PM IST. You can use Jupyter Notebook or python files or even Google Colab to Solve your Assignments

Q. Where do I get class links for next session?

A. All sessions will be Live on our Youtube Channel. It will be also updated in the Community Group in the pinned post.

Q. I have some doubt, whom do I ask?

A. Post your Queries on the community, someone will help you out.

Q. *Sir don't have anaconda so how can I solve the assignment ?*

A. Use Google Colab : Click me

Q. Can we submit multiple .py or .ipynb assignment solution files for each question separately?

A. Solve all assignments for a day in a single notebook. Make sure you are submitting a single file.