***Explanation for problem -1:***  To find the location where the most number of funding is done , we will need to plot a bar graph to show the frequency of fundings done at different locations.

For that , first we create a list (city) from the csv file and then create a numpy array named as np\_city removing all the null elements from the list.

Then the city names were corrected for ‘Bangalore’ and ‘New Delhi’.

Then only the Indian city names were kept in the list removing all foreign cities using strip() function.

Then to store the required frequency data , a dictionary was created with keys as city names and values showing the frequency of funding done in those cities.

Then we plotted the bar graph with city names on x axis(horizontal axis) and number of times fundings done on y axis(vertical axis).

By analysing the data of startup funding, I will suggest 'Banagalore' is the best option for my friend to start his business. As from graph we can see that this city('Bangalore') is getting funding maximum times followed by Mumbai and New Delhi.

***Explanation for problem – 2:*** To find the top 5 investors who have invested maximum number of times we will follow the same steps as we did in last problem by just changing the city location with the investers name. we will create a numpy array of Investers Name. Then will create a dictionary again as we diid in previous problem. At the end we will print the required top 5 investers name in decreasing order with total number of times they have invested.

We will see that investers ‘sequoia capial’ invested maximum number of times i.e., followed by ‘Accel Partners’ and ‘Kallari Capital’.

***Explanation for problem -3:***

1.To find the top 5 investers who invested maximum number of times in differnt startups, we will have to concatenate both the columns i.e, startup name and investersname in one other new column named startup\_invester.

2.for that we created a function('striper') that adds every single investers name first followed by its invested startup name.and the name of two is seperated by '|'.

3.at the end will will need to separate both the names and to remove '|' we created another function named 'firster'.

4.Then using pandas we removed the undiscloded investers name from the data and also corrected the names of important startups such as Ola,Paytm,Flipkart,Oyo,Urbanclap etc.

then we created a new columns 'strtup\_invester'. pd.value\_counts() function give up the no. of times an invester invested in the same startup and unique() function give the single times invested startup names with single invester.By using this we created a numpy array of investers with single time investment in 1 startup and by knowing the the count of same investers , we were able to find the top 5 investers who invested maximum number of times in differnt starups.

We will see that ‘Accel Partners’ is on the top of the list of investers who have invested maximum times in different startups.So I will suggest my friend to go with ‘Accel Partners’

***Explanation for problem -4:*** For this problem we will need to clean the data futher followed by the same steps as for the previous problem.This time we will only include the investers name who have invested in ‘croud funding’ and ‘ seed funding’ and then will create a new column with these investers only.

After implementing the code we will see that ‘Indian Angel Network’ have invested number of times (i.e., 33) in different startups which comes in category of croud funding and seed funding.

***Explanation for problem -5:*** This problem is similar to the previous problem. In this case we will just include the investers invested in ‘Private Equity’ only and the rest will be the same

After implementing the code we will see that ‘Sequoia Cqapital’ have invested number of times (i.e., 33) in different startups which comes in category of Private Equity.