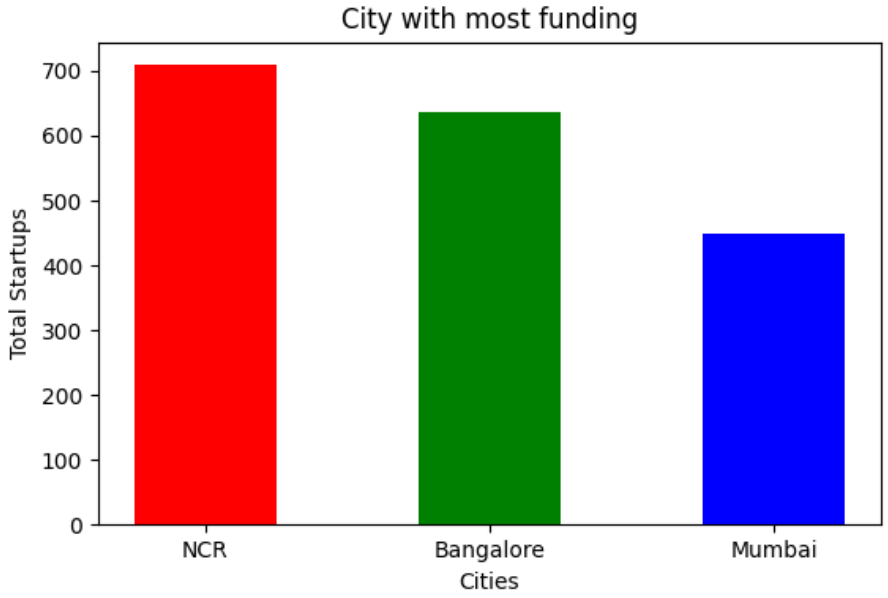
Question 1:



Code Explaination:

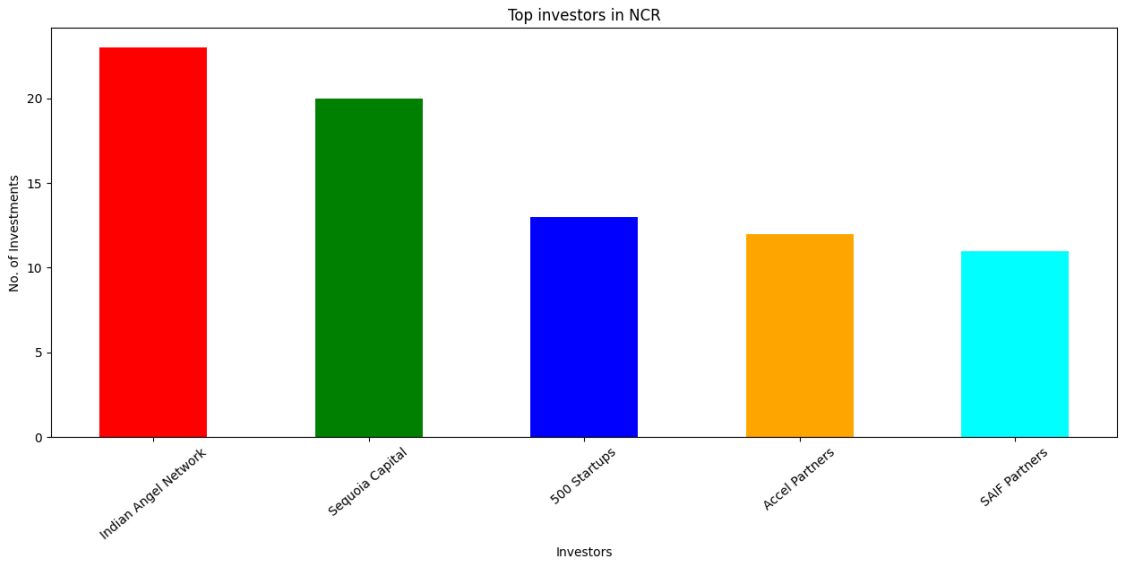
The pandas library is used to read the csv file and the column ‘StartLocation’ is then selected. The NaN values are then removed from the column and the column is then converted to a numpy array and the cities having the string ‘Gurgaon’or ‘Delhi’ or ‘Noida’ or ‘delhi’ are then sliced and added to a numpy array named **NCR,** similarly the columns having the string ‘Bangalore’ or ‘bangalore’ are then added to a numpy array **‘BLR’** and columns containing string ‘Mumbai’ are added to a numpy array **‘BOM’.** The size of these arrays are then compared

Analysis:

The **NCR** has the most at **709** total funding followed closely by **Bangalore** at **637** and then Mumbai at 449**:**

NCR	**709**
Bangalore	**637**
Mumbai	**449**

Question 2:

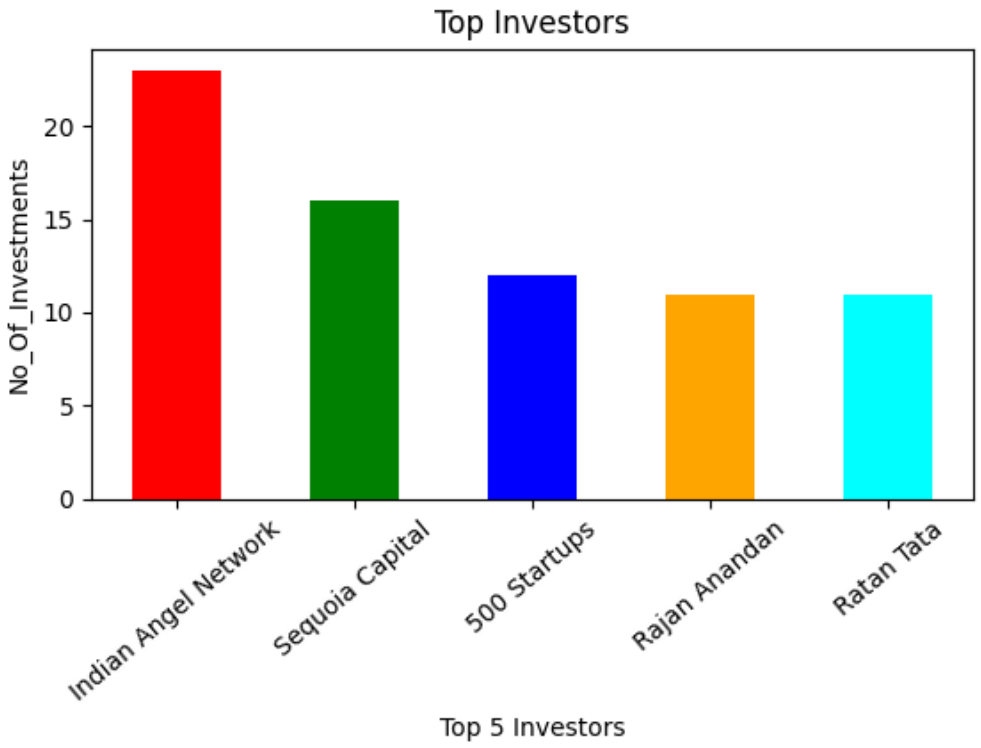


Code Explanation: Since NCR has the most number of investments we rectify the errors present in the slice of dataframe(variable-NCR) containing NCR values. Firstly with the help of unique( ) function we check the unique values in the 'Investment Type' column. Luckily the 'Investment Type' column has no errors. Now we fix the errors in the 'Startup Name' column by fixing the spellingmistakes in Oyo, Ola, Flipkart and Paytm. Then we remove the 'Undisclosed investors' from 'InvestorName' column and the individual values in this column are stored in a numpy array using str.split(',') which splits the string at commas thus giving us all the investor names. Now this numpy array is converted to a dataframe and the function value_counts( ) is used to find the first 5 top occurring values

Analysis: As the graph shows **Indian Angel Network** tops the chart with 23 occurences. Full list is as follows:

Indian Angel Network 23
Sequoia Capital 20
500 Startups 13
Accel Partners 12
SAIF Partners 11

Question 3:

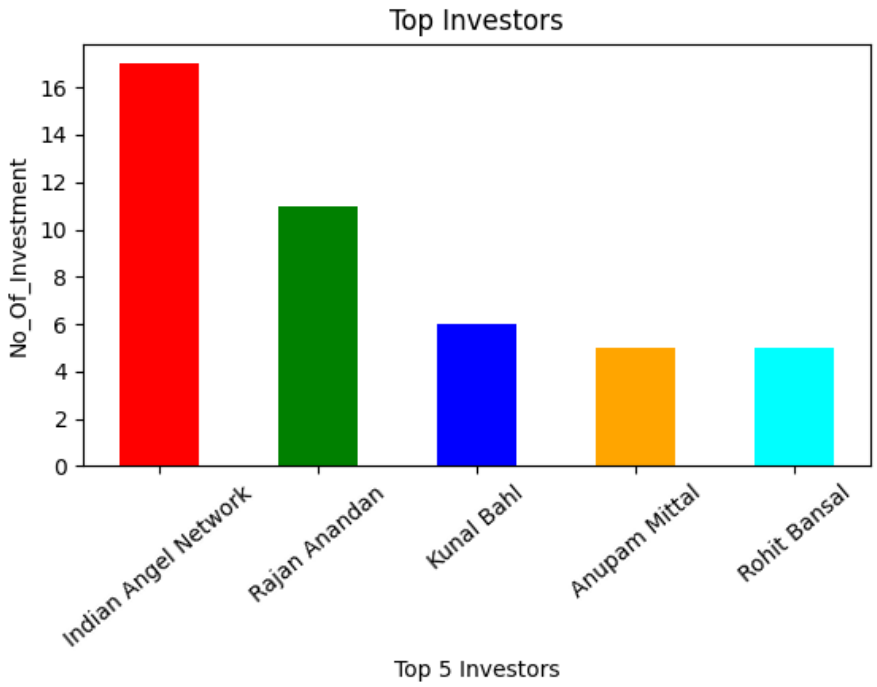


Code Explanation: In order to find investors who invested in different startups we take the 'InvestorName' column and the 'StartupName' column, The first column is then split to find individual investors which are then stored in an array along with the startup name in another array. These 2 arrays are then transformed into a dataframe and then the function groupby( ){groupby investor name here} followed by nunique( ){finding unique startupnamesonly} is used to find the Investors who invested in different startups.

Analysis: Indian Angel Networks still leads the way. The full list is given below

Indian Angel Network	**23**
Sequoia Capital	**16**
500 Startups	**12**
Rajan Anandan	**11**
Ratan Tata	**11**

Question 4:

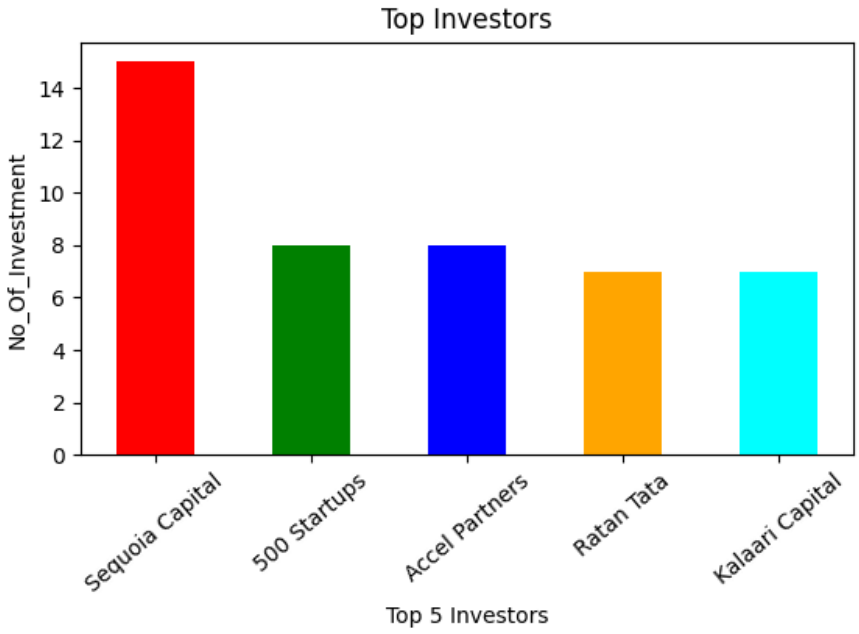


Code Explanation: In order to find investors that have only invested in crowd funding or seed funding we need to slice the dataframe NCR in such a way that we only have 'Crowd-Funding' or 'Seed Funding' as investment types. Now the 'InvestorName' column and the 'StartupName' column of the sliced dataframe are taken, The first column is then split to find individual investors which are then stored in an array along with the startup name in another array. These 2 arrays are then transformed into a dataframe and then the function groupby( ){groupby investor name here} followed by nunique( ){finding unique startupnamesonly} is used to find the Investors who invested in different startups.

Analysis: Indian Angel Networks still leads the way. The full list is given below

Indian Angel Network	**17**
Rajan Anandan	**11**
Kunal Bahl	**6**
Anupam Mittal	**5**
Rohit Bansal	**5**

Question 5:



Code Explanation: In order to find investors that have only invested in 'Private Equity'we need to slice the dataframe NCR in such a way that we only have 'Private Equity' as investment type. Now the 'InvestorName' column and the 'StartupName' column of the sliced dataframe are taken, The first column is then split to find individual investors which are then stored in an array along with the startup name in another array. These 2 arrays are then transformed into a dataframe and then the function groupby( ){groupby investor name here} followed by nunique( ){finding unique startupnamesonly} is used to find the Investors who invested in different startups.

Analysis: Sequoia Capital is the leader in this category. The full list is given below**:**

Sequoia Capital	**17**
500 Startups	**11**
Accel Partners	**8**
Ratan Tata	**7**
Kalaari Capital	**7**