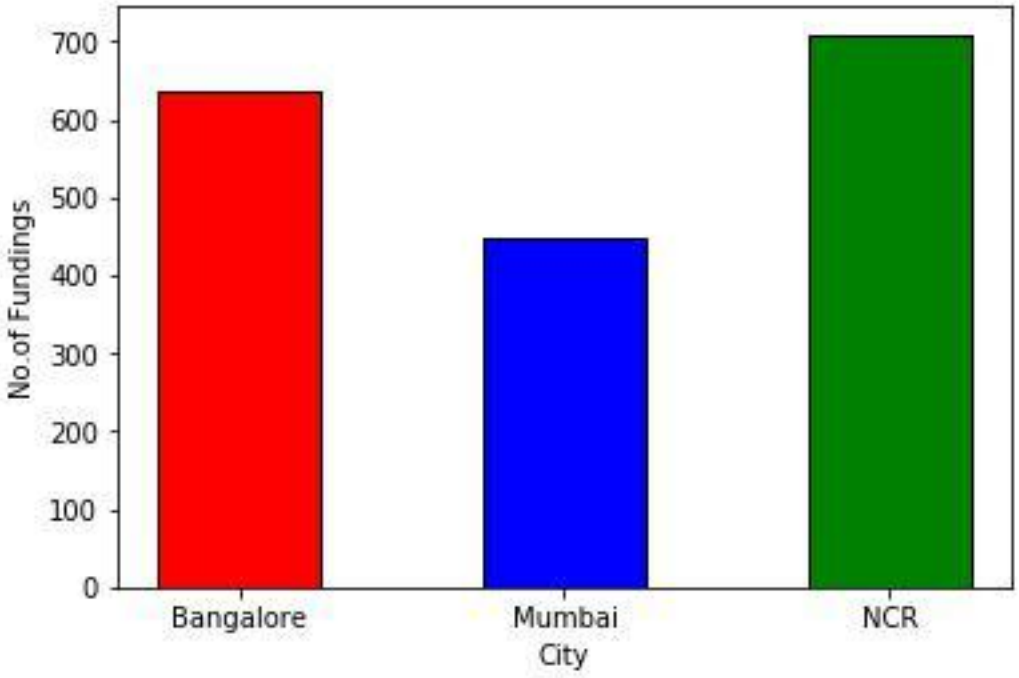
1:

```
Bangalore

City
Bangalore 637
Mumbai 449
NCR 709
```



Explanation:

As we AIM to find the location in cities including Bangalore, Mumbai, and NCR(Gurgaon, Noida, New Delhi) where startups has received funding maximum number of times.

So, according to the result **NCR** received funding maximum number of times with count of **709**.

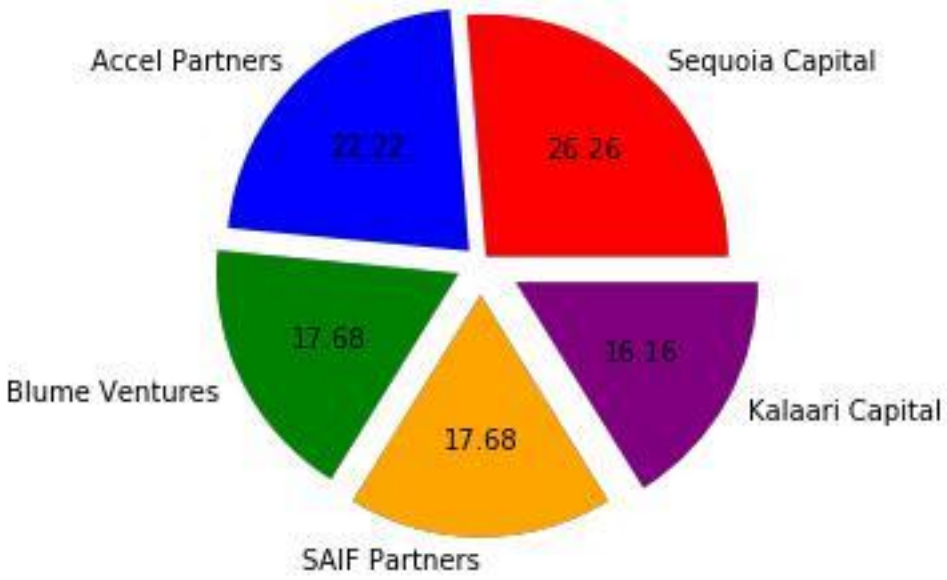
As count of funding received by given cities is as followed:

Bangalore 637 Mumbai 449 NCR 709

- In the code, firstly csv library is used to read the content line by line so that a new list of city is created after '/' has been removed by collecting the city locations(keeping in mind the condition i.e. if any city in either side of '/' is among Mumbai, Bangalore, Gurgaon, Noida and New Delhi,It should be considered).
- Then using pandas library, data frame is created of given csv file and the city list is now created as Column City in data frame.
- All the data is cleaned in the start only as mentioned in the questions for startup Name, City Name, Investment type,Date and Industry vertical.
- Now, df_loc data frame is created which is data frame of locations including Mumbai, Bangaloreand NCR (Gurgaon, Noida and New Delhi).
- In df_loc, the cities is counted by groupby() to know the start ups count in 3 selected locations .
- The maximum count out of 3 locations is found and the id of maximum count(city name) is printed.
- At the end, printed and plotted bar graph for cities vs count.

2:

```
Sequoia Capital 52
Accel Partners 44
Blume Ventures 35
SAIF Partners 35
Kalaari Capital 32
```



Explanation:

As we AIM to find the top 5 investors who have invested maximum number of times at location in cities including Bangalore, Mumbai, and NCR(Gurgaon, Noida, NewDelhi).

So, according to the result **Sequoia Capital** invested maximum number of times with count of **52** and percentage of **26.26** among top 5 investors.

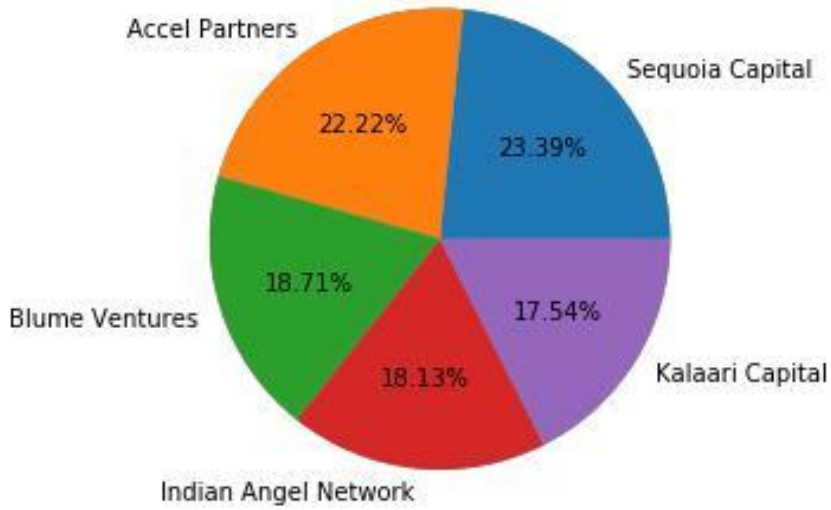
Also,Top 5 investors are as followed:

Sequoia Capital 52 Accel Partners 44 Blume Ventures 35 SAIF Partners 35 Kalaari Capital 32

- In this question, df_loc data frame is used and filled nan in investors with 'N/A'.
- In the df_loc of investors, all the investors are splitted by ',' for each sub list in it and got a list 'a' for each sub list.
- With that list 'a', a dictionary dict_inv of all the investors in df_loc data frame is created with key as investor name and value as their count of occurances.
- Extracted top 5 investors from the dictionary dict_inv using heapq nlargest() function.
- At the end, printed and plotted pie chart for the same.

3:

```
Sequoia Capital 40
Accel Partners 38
Blume Ventures 32
Indian Angel Network 31
Kalaari Capital 30
```



Explanation:

As we AIM to find the top 5 investors who have invested maximum number of times in different companies at location in cities including Bangalore, Mumbai, and NCR(Gurgaon, Noida, New Delhi).

So, according to the result **Sequoia Capital** invested maximum number of times in different companies with count of **40** and percentage of **23.39** among top 5 investors.

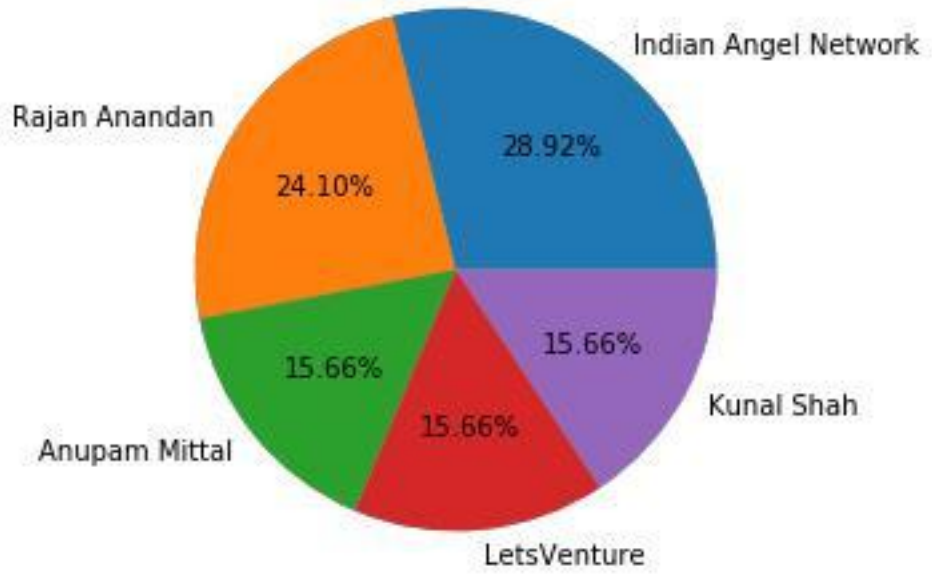
Also,Top 5 investors are as followed:

Sequoia Capital 40 Accel Partners 38 Blume Ventures 32 Indian Angel Network 31 Kalaari Capital 30

- In this question, df_loc data frame is used and filled nan in investors with 'N/A'.
- Now, a dictionary dict_st with Startup Name as key and list of investors as value is made.
- In that, using iloc the data is extracted (row by row).
- For value(investors name),firstly investors name got splitted by ','and the names are appended in dictionary dict_st one by one into a list.
- After that, dictionary of investors dict_investors using dict_st is created.
- In this, firstly, a loop for each key in dictionary dict_st and then a nested loop the set of investors is created.
- The dictionary dict_investors which have list of investors as key and value of unique startups to which they invested is created.
- Sorted the dictionary dict_investors using sorted() function and extracted the top 5 investors.
- At the end, printed and plotted pie chart for the same.

4:

```
Indian Angel Network 24
Rajan Anandan 20
Kunal Shah 13
Anupam Mittal 13
LetsVenture 13
```



Explanation:

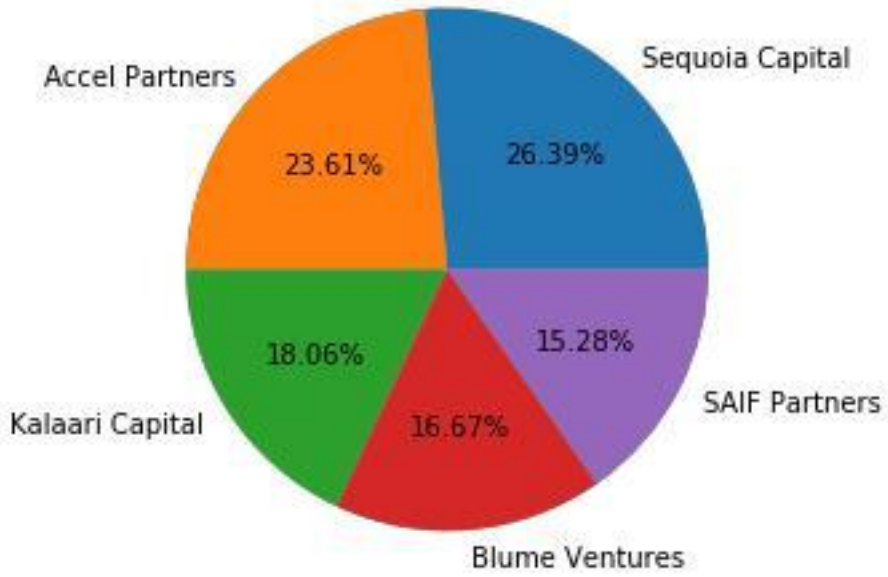
As we AIM to find the top 5 investors who have invested in a different number of startups and their investment type is Crowdfunding or Seed Funding at location in cities including Bangalore, Mumbai, and NCR(Gurgaon, Noida, New Delhi). So, according to the result **Indian Angel Network** invested maximum number of times in different companies having investment type Crowdfunding or Seed Funding with count of **24** and percentage of **28.92** among top 5 investors. Also,Top 5 investors are as followed:

Indian Angel Network 24 Rajan Anandan 20 Kunal Shah 13 Anupam Mittal 13 LetsVenture 13

- In this question, df_loc data frame is used with restricted Investment type to Seed Funding and Crowd Funding and stored it in a new data frame CSFunding.
- In this question, df_loc data frame is used and filled nan in investors with 'N/A'.
- Now, a dictionary dict_st with Startup Name as key and list of investors as value is made.
- In that, using iloc the data is extracted (row by row).
- For value(investors name),firstly investors name got splitted by ','and the names are appended in dictionary dict_st one by one into a list.
- After that, dictionary of investors dict_investors using dict_st is created.
- In this, firstly, a loop for each key in dictionary dict_st and then a nested loop the set of investors is created.
- The dictionary dict_investors which have list of investors as key and value of unique startups to which they invested is created.
- Sorted the dictionary dict_investors using sorted() function and extracted the top 5 investors.
- At the end, printed and plotted pie chart for the same.

5:

```
Sequoia Capital 38
Accel Partners 34
Kalaari Capital 26
Blume Ventures 24
SAIF Partners 22
```



Explanation:

As we AIM to find the top 5 investors who have invested in a different number of startups and their investment type is Private Equity at location in cities including Bangalore, Mumbai, and NCR(Gurgaon, Noida, New Delhi).

So, according to the result **Sequoia Capital** invested maximum number of times in different companies having investment type Private Equity with count of **38** and percentage of **26.39** among top 5 investors.

Also,Top 5 investors are as followed:

Sequoia Capital 38 Accel Partners 34 Kalaari Capital 26 Blume Ventures 24 SAIF Partners 22

- In this question, df_loc data frameis used with restricted Investment type to Private Equity and stored it in a new data frame PEFunding.
- In this question, df_loc data frame is used and filled nan in investors with 'N/A'.
- Now, a dictionary dict_st with Startup Name as key and list of investors as value is made.
- In that, using iloc the data is extracted (row by row).
- For value(investors name),firstly investors name got splitted by ','and the names are appended in dictionary dict_st one by one into a list.
- After that, dictionary of investors dict_investors using dict_st is created.
- In this, firstly, a loop for each key in dictionary dict_st and then a nested loop the set of investors is created.
- The dictionary dict_investors which have list of investors as key and value of unique startups to which they invested is created.
- Sorted the dictionary dict_investors using sorted() function and extracted the top 5 investors.
- At the end, printed and plotted pie chart for the same.