In [14]:

```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
ans=pd.read_csv("startup_funding.csv")
ans['StartupName'].replace("Oyo Rooms","Oyo",inplace=True)
ans['StartupName'].replace("OyoRooms","Oyo",inplace=True)
ans['StartupName'].replace("Oyorooms","Oyo",inplace=True)
ans['StartupName'].replace("OyO Rooms","Oyo",inplace=True)
ans['StartupName'].replace("Ola Cabs","Ola",inplace=True)
ans['StartupName'].replace("Olacabs","Ola",inplace=True)
ans['StartupName'].replace("Flipkart.com","Flipkart",inplace=True)
ans['StartupName'].replace("FlipKart","Flipkart",inplace=True)
ans['StartupName'].replace("Paytm Marketplace","Paytm",inplace=True)
ans['InvestmentType']=ans['InvestmentType'].replace("SeedFunding","Seed Funding"
)
ans['InvestmentType']=ans['InvestmentType'].replace("PrivateEquity","Private Equ
ity")
ans['InvestmentType']=ans['InvestmentType'].replace("Crowd funding","Crowd Fundi
ng")
# ans["InvestorsName"].dropna(inplace=True)
# ans["StartupName"].dropna(inplace=True)
investmenttype=ans["InvestmentType"]
invest_type=[]
startup=ans["StartupName"]
investor=ans["InvestorsName"]
dictt={}
biglist=[]
startupli=[]
for i in range(len(investor)):
    value=str(investor[i])
#     if value=="nan":
#         continue
    templi=value.split(",")
    newlist=[]
    for i in range(len(templi)):
        newvalue=templi[i].strip(" ")
        newlist.append(newvalue)
    biglist.append(newlist)
biglist
for i in range(len(startup)):
    value=str(startup[i])
    startupli.append(value)
for i in range(len(investmenttype)):
    value=str(investmenttype[i])
    invest_type.append(value)
for i in range(len(biglist)):
    li=biglist[i]
    for j in range(len(li)):
        temp=li[j]
        if temp in dictt:
            checkli=dictt[temp]
            if startupli[i] in checkli:
                continue
            if invest_type[i]=="Seed Funding" or invest_type[i]=="Crowd Funding"
:
                dictt.setdefault(temp, []).append(startupli[i])
        else:
            if invest_type[i]=="Seed Funding" or invest_type[i]=="Crowd Funding"
:
```

```
                dictt.setdefault(temp, []).append(startupli[i])
ansli=[]
for row in dictt:
    length=len(dictt[row])
    li=[row,length]
    ansli.append(li)
g=sorted(ansli,key=lambda x: x[1],reverse=True)
g
investorname=[]
investment=[]
count=0
for i in range(len(invest_type)):
    if g[i][0]=="":
        continue
    if g[i][0]=="Undisclosed Investors" or g[i][0]=="Undisclosed investors":
        continue
    count+=1
    print(g[i][0],g[i][1])
    investorname.append(g[i][0])
    investment.append(g[i][1])
    if count==5:
        break
```

```
Indian Angel Network 33
Rajan Anandan 22
LetsVenture 16
Anupam Mittal 16
Kunal Shah 14
```

# ANSERWS

1) Indian Angel Network 33

2) Rajan Anandan 22

3) LetsVenture 16

4) Anupam Mittal 16

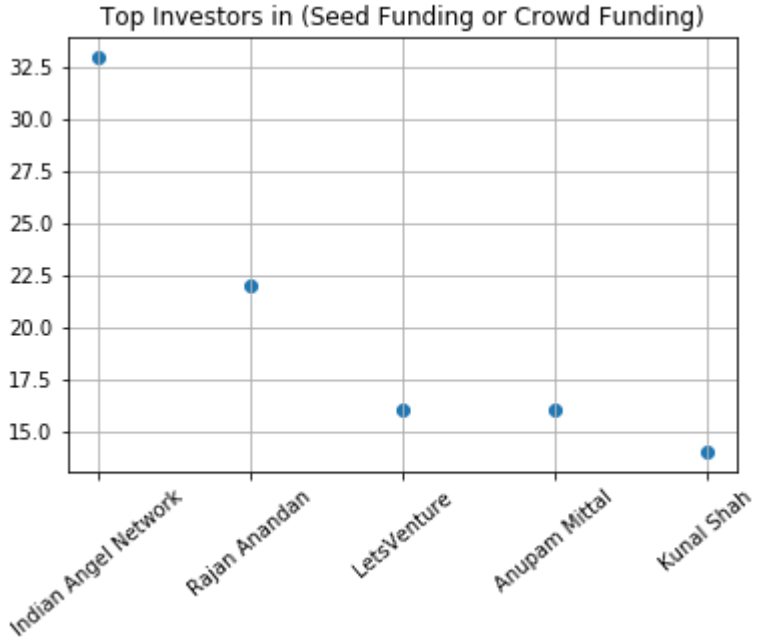
5) Kunal Shah 14

# JUSTIFICATION

Here we need to calculate Top Investors who have invested in differnet companies and there investment type is either Seed funding or Crowd Funding. 1) we made separete lists of 'INVESTOR NAMES' , 'STARTUP NAMES' , 'INVESTMENT TYPE'. 2) Then we made a dictoinary keeping INVESTOR NAMES as key value and in the value we maintained the list of investment made by those investor in differnet companies but only those investment was taken whose investment type was either Seed Funding or Crwod Funding.

In [18]:

```
plt.scatter(investorname,investment)
plt.xticks(rotation=40)
plt.title("Top Investors in (Seed Funding or Crowd Funding)")
plt.grid()
plt.show()
```




In [ ]: