In [ ]:
```
Name - THANANJAY
Roll num - 21P050
```

In [1]:
```
import pandas as pd
```

In [2]:
```
df = pd.read_csv('train.csv')
```

In [3]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3198 entries, 0 to 3197
Data columns (total 19 columns):
 #   Column               Non-Null Count  Dtype
---  ------               --------------  -----
 0   Video_id             3198 non-null   object
 1   category_id          3192 non-null   object
 2   channel_title        3195 non-null   object
 3   subscriber           3175 non-null   float64
 4   title                3195 non-null   object
 5   tags                 3046 non-null   object
 6   description          3133 non-null   object
 7   Trend_day_count      3197 non-null   float64
 8   Tag_count            3197 non-null   object
 9   Trend_tag_count      3197 non-null   object
 10  comment_count        3198 non-null   object
 11  comment_disabled     3198 non-null   object
 12  like dislike disabled 3198 non-null  object
 13  likes                3198 non-null   object
 14  dislike              3198 non-null   object
 15  tag appered in title 3197 non-null   object
 16  views                3198 non-null   object
 17  Unnamed: 17          1 non-null      float64
 18  Unnamed: 18          1 non-null      object
dtypes: float64(3), object(16)
memory usage: 474.8+ KB
```

In [4]:
```
df.head(10)
```

Out[4]:

	Video_id	category_id	channel_title	subscriber	title	
0	HDR9SQc79	22	CaseyNeistat	9086142.0	WE WANT TO TALK ABOUT OUR MARRIAGE	SHA
1	KNH52UF?48	24	LastWeekTonight	5937292.0	The Trump Presidency: Last Week Tonight with J...	last week tonight trump pre
2	QTW28IRG36	23	Rudy Mancuso	4191209.0	Racist Superman | Rudy Mancuso,	superman|rudy|mancuso|king|b

	Video_id	category_id	channel_title	subscriber	title	
					King Bach & Le...	
3	MGL76WI]26	24	Good Mythical Morning	13186408.0	Nickelback Lyrics: Real or Fake?	rhett and link|gmm|go mo
4	TWP93KXT70	24	nigahiga	20563106.0	I Dare You: GOING BALD!?	ryan|higa|higatv|nig yo
5	JDJ37HWR29	28	iJustine	4652602.0	2 Weeks with iPhone X	ijustine|week with iPho
6	INH29DD?32	24	Saturday Night Live	5292034.0	Roy Moore & Jeff Sessions Cold Open - SNL	SNL|Saturday Night Live| 4
7	ENJ69DGJ93	28	CrazyRussianHacker	10474796.0	5 Ice Cream Gadgets put to the Test	5 Ice Cream Gadgets|Ice C S
8	ZXD32BTa68	1	20th Century Fox	2453494.0	The Greatest Showman | Official Trailer 2 [HD]...	Trailer|Hugh Jackm Willia
9	NCA33YGN27	25	Vox	3808198.0	Why the rise of the robots won't mean the end ...	vox.com|vox|explain|shift chan

```
In [5]:   df.tail(10)
```

Out[5]:

	Video_id	category_id	channel_title	subscriber	title	
3188	AVI91YQD43	24	Variety	230720.0	Chloe Grace Moretz on Louis C.K. and the #MeTo...	V
3189	UGJ10XAb33	26	AmazingPhil	4232293.0	I Read A Letter From My Younger Self	amazingphil|phil lester|ph

	Video_id	category_id	channel_title	subscriber	title	
3190	PTM7WHf59	17	NBA	8707071.0	Team LeBron! Best Plays from Every All-Star on...	nba|highlights|basketball|pl
3191	ISJ87JHs2	22	Grace Helbig	3008137.0	My Bachelor Audition Tape // Grace Helbig	grace|grace helbig|gracei
3192	ZGR33QU@74	24	Trailers Promos Teasers	NaN	The Hurricane Heist Trailer	The Hurricane Heist Traile
3193	OKR48DOE67	20	EA SPORTS FIFA	3150213.0	FIFA 18 - FUT Champions Cup Barcelona - Day 1	fifa|fifa ultimate team|fu
3194	QJK69DS?91	10	JackWhiteVEVO	261596.0	Jack White - Corporation (Audio)	Alternative|Corporation|Jack
3195	VHF51NVr11	10	JamesBlakeVEVO	28321.0	James Blake - If The Car Beside You Moves Ahea...	James|Blake|If|The|Car|Beside
3196	XHU22OAJ39	26	Refinery29	890739.0	Lucie Fink Trains Like A Professional Gymnast ...	refinery29|refinery 29|r29
3197	IFD79NSG47	22	MN khan	0.0	Man drops magnum of Champagne on the floor in ...	

In [6]:
```python
df.describe()
```

Out[6]:

	subscriber	Trend_day_count	Unnamed: 17
count	3.175000e+03	3197.000000	1.0
mean	3.823981e+06	7.964342	2544.0
std	2.865771e+07	78.556055	NaN
min	0.000000e+00	0.000000	2544.0
25%	2.428800e+05	4.000000	2544.0

	subscriber	Trend_day_count	Unnamed: 17
50%	1.241220e+06	7.000000	2544.0
75%	3.812622e+06	10.000000	2544.0
max	1.576229e+09	4444.000000	2544.0

In [7]:
```python
import matplotlib.pyplot as plt
```

In [10]:
```python
plt.hist(df['views'])
plt.show()
```


In [16]:
```python
plt.scatter(df['likes'], df['views'])
plt.show()
```
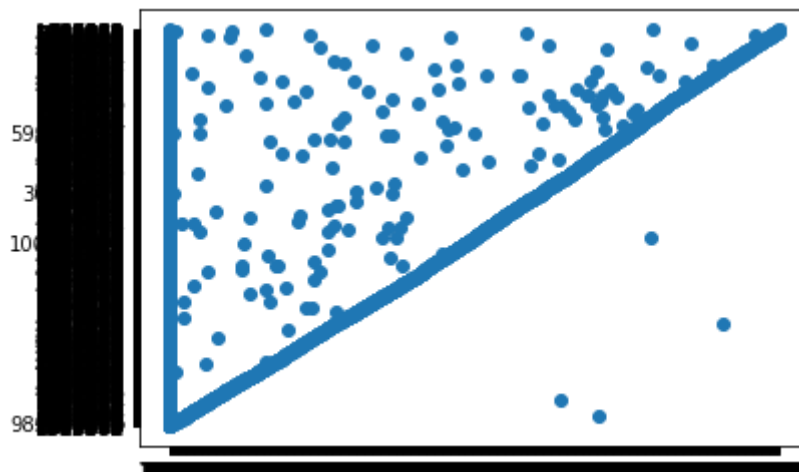

In [17]:
```python
import seaborn as sns
```

In [18]:
```python
sns.heatmap(df.corr(), annot=True)
plt.show()
```