320126551027

Kandukuri Bala Vikash

CSE DS

▾ Installing Snscrape

```
pip install snscrape
```

Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-
Collecting snscrape
  Downloading snscrape-0.3.4-py3-none-any.whl (35 kB)
Requirement already satisfied: requests[socks] in /usr/local/lib/python3.7/di
Requirement already satisfied: lxml in /usr/local/lib/python3.7/dist-packages
Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.7/dis
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /us
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-
Requirement already satisfied: PySocks!=1.5.7,>=1.5.6 in /usr/local/lib/pytho
Installing collected packages: snscrape
Successfully installed snscrape-0.3.4

▾ Importing libraries

```
import snscrape.modules.twitter as sntwitter
import pandas as pd
import numpy as np
```

▾ Extracting Tweets

```
query = "bigbilliondays"
l = []
length = 1000

for i in sntwitter.TwitterSearchScraper(query).get_items():
    if len(l) == length:
        break
    l.append(i)
l
```
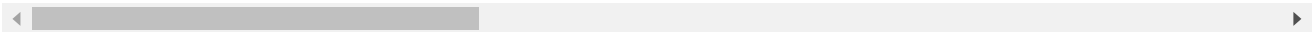
[Tweet(url='https://twitter.com/IndiaToday/status/1575516651545853953', date=datetime.datetime(2022, 9, 29, 16, 3, 36, tzinfo=datetime.timezone.utc), content='#Flipkart #BigBillionDays sale ends on September 30: Here's a quick look at all the 5G phone deals that you shouldn't miss at this year's Diwali sale.\n\nhttps://t.co/6avgEIinew', id=1575516651545853953, username='IndiaToday', outlinks= ['https://www.indiatoday.in/technology/news/story/flipkart-big-billion-days-sale-ends-on-september-30-iphone-13-at-rs-58-900-and-other-5g-phone-deals-2006423-2022-09-29'], outlinksss='https://www.indiatoday.in/technology/news/story/flipkart-big-billion-days-sale-ends-on-september-30-iphone-13-at-rs-58-900-and-other-5g-phone-deals-2006423-2022-09-29', tcooutlinks=['https://t.co/6avgEIinew'], tcooutlinksss='https://t.co/6avgEIinew'),
 Tweet(url='https://twitter.com/BasetiaSai/status/1575516331964710913', date=datetime.datetime(2022, 9, 29, 16, 2, 19, tzinfo=datetime.timezone.utc), content="Hiii #POCOFam Here is Mine New Family Member after Lot's of Xiaomi Devices Now Time For POCO Hurray Awesome Feeling 😊😊❤️❤️\n#BigBillionDays #POCOF45G @Himanshu_POCO @IndiaPOCO https://t.co/ydqKB9czdm", id=1575516331964710913, username='BasetiaSai', outlinks=[], outlinksss='', tcooutlinks=[], tcooutlinksss=''),
 Tweet(url='https://twitter.com/KashaypArun/status/1575511332652457984', date=datetime.datetime(2022, 9, 29, 15, 42, 27, tzinfo=datetime.timezone.utc), content='@Flipkart @SrBachchan @minmsme @NumeroUnoJW @the_hindu @DainikBhaskar @JagranNews @Live_Hindustan without my concent why are you cancelled my Oder you are making fool on name of #bigbilliondays I booked pre big billion day rs 1 the. Rest amnt ,why? https://t.co/g9sICM031a', id=1575511332652457984, username='KashaypArun', outlinks=[], outlinksss='', tcooutlinks=[], tcooutlinksss=''),
 Tweet(url='https://twitter.com/rupy0316/status/1575505699991617538', date=datetime.datetime(2022, 9, 29, 15, 20, 5, tzinfo=datetime.timezone.utc), content='@IndiaPOCO @Himanshu_POCO ਮੈਂ ਦੋ ਫੋਨ ਪੋਕੋ ਐਮ ਚਾਰ ਪਰੋ ਪੰਜ ਜੀ ਖਰੀਦੇ ਨੇ, ਪਰ ਹਾਲੇ ਤੱਕ ਮਿਲੇ ਨਹੀਂ, ਐਤਵਾਰ ਤੱਕ ਆਉਣ ਦੀ ਉਮੀਦ ਹੈ।\n\n #BigBillionDays\n\n@IndiaPOCO @Himanshu_POCO https://t.co/Pxt1hyTlg0', id=1575505699991617538, username='rupy0316', outlinks=[], outlinksss='', tcooutlinks=[], tcooutlinksss=''),
 Tweet(url='https://twitter.com/nirvana_490/status/1575504554149707778', date=datetime.datetime(2022, 9, 29, 15, 15, 31, tzinfo=datetime.timezone.utc), content="#bigbilliondays from @Flipkart is just nonsense.I ordered mobile and it automatically got cancelled. \nTried reaching to @flipkartsupport \n no postive response.\nThey provide bank offer and order gets cancelled. And now I can't make another order due to 1 card can avail offer once https://t.co/SJEJo6FEaF", id=1575504554149707778, username='nirvana_490', outlinks=[], outlinksss='', tcooutlinks=[], tcooutlinksss=''),
 Tweet(url='https://twitter.com/pritam_cam/status/1575504346074476544', date=datetime.datetime(2022, 9, 29, 15, 14, 42, tzinfo=datetime.timezone.utc), content='ফ্লিপকার্টের বিগ বিলিয়ন ডে-তে আমি আমার বোনের জন্য আরেকটি Poco F4 কিনেছি!!\n\nTranslation: I bought another Poco F4 for my sister during the Flipkart Big Billion Days!!\n\n#POCOFam\n#BigBillionDays\n#POCOF45G\n\n@Himanshu_POCO @IndiaPOCO https://t.co/w6YO4wuqPb', id=1575504346074476544, username='pritam_cam', outlinks=[], outlinksss='', tcooutlinks=[], tcooutlinksss=''),
 Tweet(url='https://twitter.com/pritam_cam/status/1575503788181704704', date=datetime.datetime(2022, 9, 29, 15, 12, 29, tzinfo=datetime.timezone.utc), content='@IndiaPOCO @Himanshu_POCO I bought another Poco F4 for my sister during the Flipkart Big Billion Days!!\n\nফ্লিপকার্টের বিগ বিলিয়ন ডে-তে আমি আমার বোনের জন্য আরেকটি Poco F4

```
df = pd.DataFrame(l)
df
```

	url	date	content	
0	https://twitter.com/IndiaToday/status/15755166...	2022-09-29 16:03:36+00:00	#Flipkart #BigBillionDays sale ends on Septemb...	157
1	https://twitter.com/BasetiaSai/status/15755163...	2022-09-29 16:02:19+00:00	Hiii #POCOFam Here is Mine New Family Member a...	157
2	https://twitter.com/KashaypArun/status/1575511...	2022-09-29 15:42:27+00:00	@Flipkart @SrBachchan @minmsme @NumeroUnoJW @t...	157
3	https://twitter.com/rupy0316/status/1575505699...	2022-09-29 15:20:05+00:00	@IndiaPOCO @Himanshu_POCO ਮੈਂ ਦੇ ਫੋਨ ਪੋਕੋ ਐਮ ਚ...	157
4	https://twitter.com/nirvana_490/status/1575504...	2022-09-29 15:15:31+00:00	#bigbilliondays from @Flipkart is just nonsens...	157
...	...	...	...	
995	https://twitter.com/motorolaindia/status/15729...	2022-09-22 12:10:17+00:00	Early access for for @Flipkart's #BigBillionDa...	157:
996	https://twitter.com/Artis_Store/status/1572915...	2022-09-22 11:49:19+00:00	Speed up your charging with these amazing comp...	157:
997	https://twitter.com/AnwarHoda1/status/15729158...	2022-09-22 11:48:47+00:00	@TechnicalGuruji @Flipkart #bigbilliondays #iP...	157:
998	https://twitter.com/sizenfit/status/1572907197...	2022-09-22 11:14:33+00:00	That Incredible Bubble And High Expectations B...	157:
999	https://twitter.com/AmbraneIndia/status/157290...	2022-09-22 11:08:32+00:00	From your wishlist to being yours. Grab your f...	157:

1000 rows × 9 columns

```
df.to_csv('extracted_tweets.csv')
```

```
import re
```

```
l1 = list(df["content"])
l1
```

['#Flipkart #BigBillionDays sale ends on September 30: Here's a quick look
at all the 5G phone deals that you shouldn't miss at this year's Diwali
sale.\n\nhttps://t.co/6avgEIinew',
 "Hiii #POCOFam Here is Mine New Family Member after Lot's of Xiaomi
Devices Now Time For POCO Hurray Awesome Feeling 😊😊❤❤\n#BigBillionDays
#POCOF45G @Himanshu_POCO @IndiaPOCO https://t.co/ydqKB9czdm",
 '@Flipkart @SrBachchan @minmsme @NumeroUnoJW @the_hindu @DainikBhaskar
@JagranNews @Live_Hindustan without my concent why are you cancelled my
Oder you are making fool on name of #bigbilliondays I booked pre big
billion day rs 1 the. Rest amnt ,why? https://t.co/g9sICM031a',
 '@IndiaPOCO @Himanshu_POCO ਮੈਂ ਦੋ ਫੋਨ ਪੋਕੋ ਐਮ ਚਾਰ ਪਰੋ ਪੰਜ ਜੀ ਖਰੀਦੇ ਨੇ, ਪਰ ਹਾਲੇ ਤੱਕ ਮਿਲੇ
ਨਹੀਂ, ਐਤਵਾਰ ਤੱਕ ਆਉਣ ਦੀ ਉਮੀਦ ਹੈ।\n\n #BigBillionDays\n\n@IndiaPOCO
@Himanshu_POCO https://t.co/Pxt1hyTlgO',
 "#bigbilliondays from @Flipkart is just nonsense.I ordered mobile and it
automatically got cancelled. \nTried reaching to @flipkartsupport \n no
postive response.\nThey provide bank offer and order gets cancelled. And
now I can't make another order due to 1 card can avail offer once
https://t.co/SJEJo6FEaF",
 'ফ্লিপকার্টের বিগ বিলিয়ন ডে-তে আমি আমার বোনের জন্য আরেকটি Poco F4 কিনেছি!!\n\nTranslation: I
bought another Poco F4 for my sister during the Flipkart Big Billion Days!!
\n\n#POCOFam\n#BigBillionDays\n#POCOF45G\n\n@Himanshu_POCO @IndiaPOCO
https://t.co/w6YO4wuqPb',
 '@IndiaPOCO @Himanshu_POCO I bought another Poco F4 for my sister during
the Flipkart Big Billion Days!! \n\nফ্লিপকার্টের বিগ বিলিয়ন ডে-তে আমি আমার বোনের জন্য আরেকটি
Poco F4 কিনেছি!!\n\n#POCOFam\n#BigBillionDays\n#POCOF45G\n\n@Himanshu_POCO
@IndiaPOCO https://t.co/JotmWIMLKa',
 '@flipkartsupport @Flipkart @flipkartsupport @_Kalyan_K #BIGBILLIONDAYSCAM
#bigbilliondays2022 #bigbillionday #bigbilliondays\nGive me the cancelled
products at the original price I placed the orders.',
 '@flipkartsupport @Flipkart @flipkartsupport @_Kalyan_K #BIGBILLIONDAYSCAM
#bigbilliondays2022 #bigbillionday #bigbilliondays\nGive me the cancelled
products at the original price I placed the orders.',
 'Hey @Flipkart thanks for sending me half filled bottle... Feeling so
lucky to have this experience again on your #bigbilliondays sale... Thanks!
☺ https://t.co/rG9KYt6QUj',
 'Finally ordered poco F4...now waiting for the surprise 😎
##BigBillionDays @Himanshu_POCO @IndiaPOCO https://t.co/Mr2D0CYeAF',
 'Bhaisahab aadhe desh ke paas iPhone 13 hai abhi!😭\n#iPhone13OnFlipkart
\n#iphone13 \n#bigbilliondays',
 'I ordered i phone13 blue 128gb in #bigbilliondays on 22nd September still
not recieved #flipkartfraud Delayed delivery of my product without any
reason!!!!?\nFlipkart customer care support is worst &\nEkart delivery
boy is worst .\n\n@ekartlogistics @Flipkart @flipkartsupport\n#frauds
https://t.co/Hi0x45gr9m',
 '@fastoye Aur jo apne personal use k liye le rahe the unka cancel kar diya
Hate @Flipkart @flipkartsupport #bigbilliondays',
 '#BoycottAmazon , #ChooseFlipkart \n\n#AmazonWorstFlipkartBest @amazonIN
@AmazonHelp \n\n#bigbilliondays a scamtime.\n\n#WorstAmazonService
\n\n@AmitAgarwal @JeffBezos \n\nWhen I am supposed to get my delivery? On
20th October???😞 https://t.co/zzAy5dpG89',
 'Hey @Flipkart @realmeIndia @flipkartsupport @realmecareIN I ordered
Realme C-35 on Big Billion Days, it's been only 3 days while using it, the
speaker has started misbehaving even tried to return it but got no
confirmation. Kindly look into this issue.#bigbilliondays',
 'We order, Flipkart cancels and Ask us for cancellation

experience\n\n#complaint #badcustomerservice #bigbilliondays\n\n@Flipkart
@flipkartsupport https://t.co/HiEZatyyol'

Removing emojis,special symbols,other languages

```python
lines = [re.sub(r'[^A-Za-z0-9]+', ' ', x) for x in l1]

lines

lines2 = []

for word in lines:
    if word != '':
        lines2.append(word)


lines2
```

> [' Flipkart BigBillionDays sale ends on September 30 Here s a quick look at
> all the 5G phone deals that you shouldn t miss at this year s Diwali sale
> https t co 6avgEIinew',
> 'Hiii POCOFam Here is Mine New Family Member after Lot s of Xiaomi Devices
> Now Time For POCO Hurray Awesome Feeling BigBillionDays POCOF45G Himanshu
> POCO IndiaPOCO https t co ydqKB9czdm',
> ' Flipkart SrBachchan minmsme NumeroUnoJW the hindu DainikBhaskar
> JagranNews Live Hindustan without my concent why are you cancelled my Oder
> you are making fool on name of bigbilliondays I booked pre big billion day
> rs 1 the Rest amnt why https t co g9sICM031a',
> ' IndiaPOCO Himanshu POCO BigBillionDays IndiaPOCO Himanshu POCO https t
> co Pxt1hyTlgO',
> ' bigbilliondays from Flipkart is just nonsense I ordered mobile and it
> automatically got cancelled Tried reaching to flipkartsupport no postive
> response They provide bank offer and order gets cancelled And now I can t
> make another order due to 1 card can avail offer once https t co
> SJEJo6FEaF',
> ' Poco F4 Translation I bought another Poco F4 for my sister during the
> Flipkart Big Billion Days POCOFam BigBillionDays POCOF45G Himanshu POCO
> IndiaPOCO https t co w6YO4wuqPb',
> ' IndiaPOCO Himanshu POCO I bought another Poco F4 for my sister during
> the Flipkart Big Billion Days Poco F4 POCOFam BigBillionDays POCOF45G
> Himanshu POCO IndiaPOCO https t co JotmWIMLKa',
> ' flipkartsupport Flipkart flipkartsupport Kalyan K BIGBILLIONDAYSCAM
> bigbilliondays2022 bigbillionday bigbilliondays Give me the cancelled
> products at the original price I placed the orders ',
> ' flipkartsupport Flipkart flipkartsupport Kalyan K BIGBILLIONDAYSCAM
> bigbilliondays2022 bigbillionday bigbilliondays Give me the cancelled
> products at the original price I placed the orders ',
> 'Hey Flipkart thanks for sending me half filled bottle Feeling so lucky to
> have this experience again on your bigbilliondays sale Thanks https t co
> rG9KYt6QUj',
> 'Finally ordered poco F4 now waiting for the surprise BigBillionDays
> Himanshu POCO IndiaPOCO https t co Mr2D0CYeAF',
> 'Bhaisahab aadhe desh ke paas iPhone 13 hai abhi iPhone13OnFlipkart
> iphone13 bigbilliondays',
> 'I ordered i phone13 blue 128gb in bigbilliondays on 22nd September still
> not recieved flipkartfraud Delayed delivery of my product without any

```
reason Flipkart customer care support is worst amp Ekart delivery boy is
worst ekartlogistics Flipkart flipkartsupport frauds https t co
Hi0x45gr9m',
 ' fastoye Aur jo apne personal use k liye le rahe the unka cancel kar diya
Hate Flipkart flipkartsupport bigbilliondays',
 ' BoycottAmazon ChooseFlipkart AmazonWorstFlipkartBest amazonIN AmazonHelp
bigbilliondays a scamtime WorstAmazonService AmitAgarwal JeffBezos When I
am supposed to get my delivery On 20th October https t co zzAy5dpG89',
 'Hey Flipkart realmeIndia flipkartsupport realmecareIN I ordered Realme C
35 on Big Billion Days it s been only 3 days while using it the speaker has
started misbehaving even tried to return it but got no confirmation Kindly
look into this issue bigbilliondays',
 'We order Flipkart cancels and Ask us for cancellation experience
complaint badcustomerservice bigbilliondays Flipkart flipkartsupport https
t co HjFZatyyol',
 ' TiwariSuhu bigbilliondays sale chal rahi hai',
 ' flipkartsupport Customer Care says they cannot track their delivery
person for a non delivered item marked as delivered on the app Looks like
our paid orders are in danger with these thieves DO NOT ORDER from Flipkart
```

```
df2 = pd.DataFrame(lines2)
df2
```

	0
0	Flipkart BigBillionDays sale ends on Septembe...
1	Hiii POCOFam Here is Mine New Family Member af...
2	Flipkart SrBachchan minmsme NumeroUnoJW the h...
3	IndiaPOCO Himanshu POCO BigBillionDays IndiaP...
4	bigbilliondays from Flipkart is just nonsense...
...	...
995	Early access for for Flipkart s BigBillionDays...
996	Speed up your charging with these amazing comp...
997	TechnicalGuruji Flipkart bigbilliondays iPhon...
998	That Incredible Bubble And High Expectations B...
999	From your wishlist to being yours Grab your fa...

1000 rows × 1 columns

```
df['content'] = df2
df
```

	url	date	content	
0	https://twitter.com/IndiaToday/status/15755166...	2022-09-29 16:03:36+00:00	Flipkart BigBillionDays sale ends on Septembe...	1575516
1	https://twitter.com/BasetiaSai/status/15755163...	2022-09-29 16:02:19+00:00	Hiii POCOFam Here is Mine New Family Member af...	1575516
2	https://twitter.com/KashaypArun/status/1575511...	2022-09-29 15:42:27+00:00	Flipkart SrBachchan minmsme NumeroUnoJW the h...	1575511
3	https://twitter.com/rupy0316/status/1575505699...	2022-09-29 15:20:05+00:00	IndiaPOCO Himanshu POCO BigBillionDays IndiaP...	1575505
4	https://twitter.com/nirvana_490/status/1575504...	2022-09-29 15:15:31+00:00	bigbilliondays from Flipkart is just nonsense...	1575504
...	...	...	...	
995	https://twitter.com/motorolaindia/status/15729...	2022-09-22 12:10:17+00:00	Early access for for Flipkart s BigBillionDays...	1572921
996	https://twitter.com/Artis_Store/status/1572915...	2022-09-22 11:49:19+00:00	Speed up your charging with these amazing comp...	1572915
997	https://twitter.com/AnwarHoda1/status/15729158...	2022-09-22 11:48:47+00:00	TechnicalGuruji Flipkart bigbilliondays iPhon...	1572915
998	https://twitter.com/sizenfit/status/1572907197...	2022-09-22 11:14:33+00:00	That Incredible Bubble And High Expectations B...	1572907
	https://twitter.com/Ap.........b.di/status/157308	2022-09-22	From your wishlist to being	

```
df.head(10)
```

	url	date	content	
0	https://twitter.com/IndiaToday/status/15755166...	2022-09-29 16:03:36+00:00	Flipkart BigBillionDays sale ends on Septembe...	1575516
1	https://twitter.com/BasetiaSai/status/15755163...	2022-09-29 16:02:19+00:00	Hiii POCOFam Here is Mine New Family Member af...	1575516
2	https://twitter.com/KashaypArun/status/1575511...	2022-09-29 15:42:27+00:00	Flipkart SrBachchan minmsme NumeroUnoJW the h...	1575511
3	https://twitter.com/rupy0316/status/1575505699...	2022-09-29 15:20:05+00:00	IndiaPOCO Himanshu POCO BigBillionDays IndiaP...	1575505
4	https://twitter.com/nirvana_490/status/1575504...	2022-09-29 15:15:31+00:00	bigbilliondays from Flipkart is just nonsense...	1575504
5	https://twitter.com/pritam_cam/status/15755043...	2022-09-29 15:14:42+00:00	Poco F4 Translation I bought another Poco F4 ...	1575504
6	https://twitter.com/pritam_cam/status/15755037...	2022-09-29 15:12:29+00:00	IndiaPOCO Himanshu POCO I bought another Poco...	1575503
7	https://twitter.com/RKSHOWMAN/status/157550375...	2022-09-29 15:12:22+00:00	flipkartsupport Flipkart flipkartsupport Kaly...	1575503
8	https://twitter.com/RKSHOWMAN/status/157550368...	2022-09-29 15:12:04+00:00	flipkartsupport Flipkart flipkartsupport Kaly...	1575503
9	https://twitter.com/Ajay_Kr_Thakur/status/1575...	2022-09-29 15:11:51+00:00	Hey Flipkart thanks for sending me half filled...	1575503

▾ Installing Textblob

```
pip install textblob
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-
Requirement already satisfied: textblob in /usr/local/lib/python3.7/dist-pack
Requirement already satisfied: nltk>=3.1 in /usr/local/lib/python3.7/dist-pac
Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.7/di
Requirement already satisfied: tqdm in /usr/local/lib/python3.7/dist-packages
Requirement already satisfied: joblib in /usr/local/lib/python3.7/dist-packag
Requirement already satisfied: click in /usr/local/lib/python3.7/dist-package
```

▾ Importing NLTK

```
# Import stopwords
import nltk
from nltk.corpus import stopwords

# Import textblob
from textblob import Word, TextBlob


# Calculate polarity
df['polarity'] = df['content'].apply(lambda x: TextBlob(x).sentiment[0])
df['subjectivity'] = df['content'].apply(lambda x: TextBlob(x).sentiment[1])
df
```

	url	date	content	
0	https://twitter.com/IndiaToday/status/15755166...	2022-09-29 16:03:36+00:00	Flipkart BigBillionDays sale ends on Septembe...	157551€
1	https://twitter.com/BasetiaSai/status/15755163...	2022-09-29 16:02:19+00:00	Hiii POCOFam Here is Mine New Family Member af...	157551€
2	https://twitter.com/KashaypArun/status/1575511...	2022-09-29 15:42:27+00:00	Flipkart SrBachchan minmsme NumeroUnoJW the h...	1575511
3	https://twitter.com/rupy0316/status/1575505699...	2022-09-29 15:20:05+00:00	IndiaPOCO Himanshu POCO BigBillionDays IndiaP...	157550€
4	https://twitter.com/nirvana_490/status/1575504...	2022-09-29 15:15:31+00:00	bigbilliondays from Flipkart is	157550₄

```
df["sentiment"] = np.where(df['polarity'] >= 0 , 'Positive', 'Negative')
df.head()
```

	url	date	content	
0	https://twitter.com/IndiaToday/status/15755166...	2022-09-29 16:03:36+00:00	Flipkart BigBillionDays sale ends on Septembe...	1575516651
1	https://twitter.com/BasetiaSai/status/15755163...	2022-09-29 16:02:19+00:00	Hiii POCOFam Here is Mine New Family Member af...	1575516331
2	https://twitter.com/KashaypArun/status/1575511...	2022-09-29 15:42:27+00:00	Flipkart SrBachchan minmsme NumeroUnoJW the h...	1575511332
3	https://twitter.com/rupy0316/status/1575505699...	2022-09-29 15:20:05+00:00	IndiaPOCO Himanshu POCO BigBillionDays IndiaP...	1575505699
4	https://twitter.com/nirvana_490/status/1575504...	2022-09-29 15:15:31+00:00	bigbilliondays from Flipkart is just nonsense...	1575504554

```
new_df = df[['date','content','polarity','subjectivity','sentiment']].copy()
new_df
```

	date	content	polarity	subjectivity	sentiment
0	2022-09-29 16:03:36+00:00	Flipkart BigBillionDays sale ends on Septembe...	0.333333	0.500000	Positive
1	2022-09-29 16:02:19+00:00	Hiii POCOFam Here is Mine New Family Member af...	0.568182	0.727273	Positive
2	2022-09-29 15:42:27+00:00	Flipkart SrBachchan minmsme NumeroUnoJW the h...	0.068182	0.300000	Positive
3	2022-09-29 15:20:05+00:00	IndiaPOCO Himanshu POCO BigBillionDays IndiaP...	0.000000	0.000000	Positive
4	2022-09-29 15:15:31+00:00	bigbilliondays from Flipkart is just nonsense...	-0.125000	0.375000	Negative
...	...	...	...	...	...
995	2022-09-22 12:10:17+00:00	Early access for for Flipkart s BigBillionDays...	0.259091	0.412500	Positive
996	2022-09-22	Speed up your charging with	0.600000	0.900000	Positive

```
display(df[['content','polarity','subjectivity','sentiment']].groupby('content').ag
```

	polarity				subjectivity		
	mean	amax	amin	median	mean	amax	a
content							
0xFireDrops Yes collected the Fourth Culture spark bigbilliondays TreasureHunt 0xFireDrops	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0
0xFireDrops eDAOHQ Collected One More NFT flipkart bigbilliondays	0.500000	0.500000	0.500000	0.500000	0.500000	0.500000	0

Positive sentimented tweets

```
positive = df[df["sentiment"] == "Positive"]
positive
```

	url	date	content	
0	https://twitter.com/IndiaToday/status/15755166...	2022-09-29 16:03:36+00:00	Flipkart BigBillionDays sale ends on Septembe...	1575516
1	https://twitter.com/BasetiaSai/status/15755163...	2022-09-29 16:02:19+00:00	Hiii POCOFam Here is Mine New Family Member af...	1575516
2	https://twitter.com/KashaypArun/status/1575511...	2022-09-29 15:42:27+00:00	Flipkart SrBachchan minmsme NumeroUnoJW the h...	1575511
		2022-09-29	IndiaPOCO Himanshu	

Verification

Poco F4

```
print("Tweet:- " +df.iloc[995]['content'])
print("Sentiment:- " +df.iloc[995]['sentiment'])
```

```
Tweet:- Early access for for Flipkart s BigBillionDays Sale is live for FK Pl
Sentiment:- Positive
```

BigBillionDays...

Negative sentimented tweets

| 996 | https://twitter.com/Artis_Store/status/1572915... | 11:49:19+00:00 | these amazing | 1572915 |

```
negative = df[df["sentiment"] == "Negative"]
negative
```

	url	date	content	
4	https://twitter.com/nirvana_490/status/1575504...	2022-09-29 15:15:31+00:00	bigbilliondays from Flipkart is just nonsense...	157
12	https://twitter.com/RaghunathVirat/status/1575...	2022-09-29 15:02:48+00:00	I ordered i phone13 blue 128gb in bigbillionda...	157
13	https://twitter.com/bhatmuzaffar55/status/1575...	2022-09-29 14:58:58+00:00	fastoye Aur jo apne personal use k liye le ra...	157
16	https://twitter.com/bhargavpathak/status/15754...	2022-09-29 14:36:43+00:00	We order Flipkart cancels and Ask us for cance...	15
21	https://twitter.com/khanasad4405/status/157548...	2022-09-29 14:11:24+00:00	I ordered noise fit caliber watch on 24 Sept e...	157
...	...	...	...	
927	https://twitter.com/shubhama83/status/15729985...	2022-09-22 17:17:35+00:00	If someone want 2 hv stock of nakpro isolate p...	15

▼ Verification

```
print("Tweet:- " +df.iloc[4]['content'])
print("Sentiment:- " +df.iloc[4]['sentiment'])
```

```
Tweet:-  bigbilliondays from Flipkart is just nonsense I ordered mobile and i
Sentiment:- Negative
```

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