

Task 4 code

October 28, 2021

Installing pyhive

```
[2]: pip install pyhive
```

```
Collecting pyhive
  Downloading https://files.pythonhosted.org/packages/7a/3b/379563ead1d431
b946d5d20b8c3b960c318581926702040931aaa2d5cf28/PyHive-0.6.4.tar.gz (44kB)
    |                                     | 51kB 4.9MB/s eta 0:00:011
Requirement already satisfied: future in
/opt/conda/anaconda/lib/python3.7/site-packages (from pyhive) (0.17.1)
Requirement already satisfied: python-dateutil in
/opt/conda/anaconda/lib/python3.7/site-packages (from pyhive) (2.8.0)
Requirement already satisfied: six>=1.5 in
/opt/conda/anaconda/lib/python3.7/site-packages (from python-dateutil->pyhive)
(1.15.0)
Building wheels for collected packages: pyhive
  Building wheel for pyhive (setup.py) ... done
  Created wheel for pyhive: filename=PyHive-0.6.4-cp37-none-any.whl
size=51495
sha256=5ee4d6de420e212c7c9a3e0613c902440648ac9001865bf1f4e18d077890e9c8
  Stored in directory: /root/.cache/pip/wheels/0b/8d/51/4f4d0799c9281b8f6d742795
733395638b5c2f490cf49dc09a
Successfully built pyhive
Installing collected packages: pyhive
Successfully installed pyhive-0.6.4
Note: you may need to restart the kernel to use updated packages.
```

0.0.1 Installing sklearn: libs are used to calculate idf dtf

```
[4]: ! pip install sklearn
```

```
Collecting sklearn
  Downloading https://files.pythonhosted.org/packages/1e/7a/dbb3be0ce9bd5c8b7e3d
87328e79063f8b263b2b1bfa4774cb1147bfcd3f/sklearn-0.0.tar.gz
Requirement already satisfied: scikit-learn in
/opt/conda/anaconda/lib/python3.7/site-packages (from sklearn) (0.21.3)
Requirement already satisfied: numpy>=1.11.0 in
/opt/conda/anaconda/lib/python3.7/site-packages (from scikit-learn->sklearn)
```

```

(1.17.2)
Requirement already satisfied: joblib>=0.11 in
/opt/conda/anaconda/lib/python3.7/site-packages (from scikit-learn->sklearn)
(0.13.2)
Requirement already satisfied: scipy>=0.17.0 in
/opt/conda/anaconda/lib/python3.7/site-packages (from scikit-learn->sklearn)
(1.3.1)
Building wheels for collected packages: sklearn
  Building wheel for sklearn (setup.py) ... done
  Created wheel for sklearn: filename=sklearn-0.0-py2.py3-none-any.whl
size=1316
sha256=a3e14ce2c5a79eef46c0c7d70e43a2b910702c4573c947f124f99bcb4231e059
  Stored in directory: /root/.cache/pip/wheels/76/03/bb/589d421d27431bcd2c6da284
d5f2286c8e3b2ea3cf1594c074
Successfully built sklearn
Installing collected packages: sklearn
Successfully installed sklearn-0.0

```

0.0.2 Importing the required libs

```

[2]: from pyhive import hive
import pandas as pd
from sklearn.feature_extraction.text import TfidfVectorizer
connection = hive.
    ↳Connection("localhost",10000,"rutuja_bhuwad2","5472246886210937407")

```

0.0.3 Get the records for top 10 users

```

[28]: df1 = pd.read_sql("SELECT sum(Score) as score, userid, max(displayname) as_
    ↳displayname FROM Query_DATA where userid is not NULL GROUP BY userid SORT_
    ↳BY score DESC LIMIT 10",connection)
userid=tuple(df1['userid'])
#tuple(userid)
df = pd.read_sql(f"select id, body, title, owneruserid, displayname from_
    ↳Query_DATA where owneruserid in {userid}",connection)
df

```

```

[28]:      id      body \
0    927358  I accidentally committed the wrong files to Gi...
1    2003505  I want to delete a branch both locally and rem...
2     48198  How can you find out which process is listenin...
3    1144783  I have this string in my JavaScript code  quo...
4     221294  Something similar to Unix s timestamp  that is...
..      ...      ...
415  35416525  In my TabBarController  I create a UINavigationController

```

```

416 4482392 I m using Django forms I m validating in the ...
417 7314901 I m trying to encrypt decrypt a string using ...
418 46151540 Following the instructions here http www b...
419 603661 If you have several classes where you want the...

```

```

                                title  owneruserid  \
0  How do I undo the most recent local commits in...      89904
1  How do I delete a Git branch locally and remot...     95592
2  How can you find out which process is listenin...      4883
3  How to replace all occurrences of a string in ...     49153
4      How do you get a timestamp in JavaScript?        6068
..      ...
415 How to correctly dismiss a UINavigationController...    179736
416 How do I raise a ValidationError (or do someth...    179736
417 How to add/remove PKCS7 padding from an AES en...     49153
418 Added Springfox Swagger-UI and it's not workin...     6068
419      Inherit from a class or an abstract class        51816

```

```

displayname
0  Hamza Yerlikaya
1  Matthew Rankin
2      readonly
3      Ali
4      pupeno
..      ...
415      TIMEX
416      TIMEX
417      Ali
418      pupeno
419      Joan Venge

```

[420 rows x 5 columns]

0.0.4 Merge body and title column

```

[22]: df['dfset'] = df['body'] + ' ' + df['title']
df

```

```

[22]:      id                                body  \
0    927358  I accidentally committed the wrong files to Gi...
1    2003505  I want to delete a branch both locally and rem...
2     48198  How can you find out which process is listenin...
3    1144783  I have this string in my JavaScript code quo...
4     221294  Something similar to Unix s timestamp that is...
..      ...
415  35416525  In my TabBarController I create a UINavig...

```

```

416 4482392 I m using Django forms I m validating in the ...
417 7314901 I m trying to encrypt decrypt a string using ...
418 46151540 Following the instructions here http www b...
419 603661 If you have several classes where you want the...

                                title  owneruserid  \
0  How do I undo the most recent local commits in...      89904
1  How do I delete a Git branch locally and remot...     95592
2  How can you find out which process is listenin...      4883
3  How to replace all occurrences of a string in ...     49153
4  How do you get a timestamp in JavaScript?         6068
..  ...
415  How to correctly dismiss a UINavigationController...    179736
416  How do I raise a ValidationError (or do someth...    179736
417  How to add/remove PKCS7 padding from an AES en...     49153
418  Added Springfox Swagger-UI and it's not workin...     6068
419  Inherit from a class or an abstract class         51816

displayname                                dfset
0  Hamza Yerlikaya I accidentally committed the wrong files to Gi...
1  Matthew Rankin I want to delete a branch both locally and rem...
2  readonly How can you find out which process is listenin...
3  Ali I have this string in my JavaScript code quo...
4  pupeno Something similar to Unix s timestamp that is...
..  ...
415  TIMEX In my TabBarViewController I create a UINavig...
416  TIMEX I m using Django forms I m validating in the ...
417  Ali I m trying to encrypt decrypt a string using ...
418  pupeno Following the instructions here http www b...
419  Joan Venge If you have several classes where you want the...

```

[420 rows x 6 columns]

0.0.5 Define function to calculate the Tf-Idf for userid

```

[23]: def tfidfcal(sample):
        vectorizer = TfidfVectorizer(stop_words='english',lowercase=True)
        response = vectorizer.fit_transform(sample)
        df_tfidf_sklearn = pd.DataFrame(response.toarray(),columns=vectorizer.
        ↳get_feature_names())
        Sum= df_tfidf_sklearn.sum(axis=0)
        totaldfset= Sum.nlargest(10)
        output = list(totaldfset.index)
        return df_tfidf_sklearn[output]

```

0.0.6 Call tfidfcal function in for loop to get the tfidf of top 10 user

```
[27]: for i in df1.index:
      df2 = df.query(f"displayname == '{df1['displayname'].values[i]}'")
      df3 = tfidfcal(df2['dfset'])
      df3.insert(10, 'useroutput', df1['displayname'].values[i])
      display(df3)
```

	lt	copy	data	int	idiom	gt	quot \
0	0.431818	0.000000	0.51101	0.172727	0.000000	0.129546	0.086364
1	0.126037	0.000000	0.00000	0.252073	0.000000	0.252073	0.252073
2	0.000000	0.523691	0.00000	0.000000	0.418953	0.000000	0.000000

	swap	arraysize	array	useroutput
0	0.000000	0.283895	0.194318	GManNickG
1	0.000000	0.000000	0.000000	GManNickG
2	0.314215	0.000000	0.079656	GManNickG

	python	use	ruby	list	table	branch	way \
0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.413988	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.000000	0.000000	0.000000	0.636117	0.000000
5	0.152171	0.174938	0.000000	0.000000	0.000000	0.000000	0.000000
6	0.000000	0.191672	0.000000	0.000000	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
8	0.000000	0.000000	0.204627	0.000000	0.000000	0.000000	0.000000
9	0.251336	0.000000	0.000000	0.000000	0.000000	0.000000	0.144470
10	0.195328	0.112276	0.000000	0.000000	0.000000	0.000000	0.000000
11	0.000000	0.000000	0.000000	0.135482	0.000000	0.000000	0.000000
12	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
13	0.000000	0.000000	0.404077	0.000000	0.000000	0.000000	0.000000
14	0.101808	0.234079	0.000000	0.418562	0.000000	0.000000	0.000000
15	0.000000	0.120988	0.000000	0.000000	0.310520	0.000000	0.120988
16	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
17	0.000000	0.213146	0.000000	0.000000	0.000000	0.000000	0.000000
18	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
19	0.088347	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
20	0.149597	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
21	0.194472	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
22	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.179925
23	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
24	0.000000	0.000000	0.000000	0.000000	0.000000	0.402695	0.114986
25	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
26	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
27	0.070218	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

28	0.000000	0.202521	0.000000	0.000000	0.259890	0.000000	0.101261
29	0.000000	0.000000	0.000000	0.000000	0.521156	0.000000	0.000000
30	0.000000	0.000000	0.000000	0.202044	0.000000	0.000000	0.169489
31	0.163253	0.000000	0.223728	0.447455	0.000000	0.000000	0.187678
32	0.121700	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

	difference	git	process	useroutput
0	0.000000	0.000000	0.350231	readonly
1	0.000000	0.203342	0.000000	readonly
2	0.000000	0.149441	0.000000	readonly
3	0.000000	0.000000	0.000000	readonly
4	0.000000	0.202994	0.000000	readonly
5	0.000000	0.000000	0.000000	readonly
6	0.491935	0.000000	0.000000	readonly
7	0.000000	0.000000	0.000000	readonly
8	0.000000	0.000000	0.000000	readonly
9	0.000000	0.000000	0.000000	readonly
10	0.288162	0.000000	0.000000	readonly
11	0.000000	0.000000	0.000000	readonly
12	0.000000	0.000000	0.000000	readonly
13	0.000000	0.000000	0.000000	readonly
14	0.000000	0.000000	0.000000	readonly
15	0.000000	0.000000	0.000000	readonly
16	0.000000	0.000000	0.187558	readonly
17	0.000000	0.238205	0.000000	readonly
18	0.000000	0.000000	0.000000	readonly
19	0.000000	0.000000	0.000000	readonly
20	0.220697	0.000000	0.000000	readonly
21	0.000000	0.000000	0.000000	readonly
22	0.000000	0.000000	0.000000	readonly
23	0.000000	0.000000	0.000000	readonly
24	0.000000	0.192758	0.000000	readonly
25	0.000000	0.000000	0.000000	readonly
26	0.000000	0.000000	0.000000	readonly
27	0.000000	0.000000	0.000000	readonly
28	0.000000	0.000000	0.389835	readonly
29	0.000000	0.000000	0.000000	readonly
30	0.000000	0.000000	0.000000	readonly
31	0.000000	0.000000	0.000000	readonly
32	0.000000	0.000000	0.000000	readonly

	python	git	head	does	using	like	gt \
0	0.000000	0.070040	0.000000	0.000000	0.000000	0.062296	0.000000
1	0.000000	0.000000	0.000000	0.119001	0.000000	0.105843	0.000000
2	0.548044	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3	0.466569	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5	0.000000	0.000000	0.000000	0.381432	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.000000	0.000000	0.125318	0.000000	0.000000
7	0.000000	0.000000	0.000000	0.226583	0.000000	0.000000	0.000000
8	0.000000	0.419950	0.348896	0.139983	0.000000	0.000000	0.000000
9	0.112558	0.000000	0.000000	0.000000	0.000000	0.234385	0.651160
10	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
11	0.000000	0.000000	0.000000	0.000000	0.000000	0.162964	0.000000
12	0.000000	0.074466	0.000000	0.000000	0.159032	0.000000	0.000000
13	0.000000	0.000000	0.000000	0.000000	0.000000	0.174931	0.000000
14	0.000000	0.000000	0.000000	0.000000	0.248870	0.000000	0.000000
15	0.000000	0.186841	0.698527	0.000000	0.000000	0.000000	0.000000
16	0.082390	0.000000	0.000000	0.154315	0.000000	0.137253	0.000000
17	0.000000	0.000000	0.000000	0.000000	0.174213	0.036277	0.000000
18	0.000000	0.336791	0.000000	0.000000	0.000000	0.000000	0.000000
19	0.115735	0.000000	0.000000	0.000000	0.000000	0.096401	0.000000
20	0.000000	0.187124	0.000000	0.062375	0.000000	0.000000	0.000000
21	0.000000	0.000000	0.134181	0.000000	0.000000	0.000000	0.295618
22	0.000000	0.000000	0.000000	0.000000	0.325353	0.000000	0.000000
23	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

	use	way	string	useroutput
0	0.000000	0.000000	0.000000	e-satis
1	0.000000	0.000000	0.000000	e-satis
2	0.256619	0.000000	0.000000	e-satis
3	0.000000	0.274178	0.000000	e-satis
4	0.000000	0.063801	0.000000	e-satis
5	0.000000	0.143609	0.475342	e-satis
6	0.117359	0.000000	0.000000	e-satis
7	0.113291	0.000000	0.000000	e-satis
8	0.139983	0.000000	0.000000	e-satis
9	0.000000	0.099216	0.065680	e-satis
10	0.000000	0.000000	0.000000	e-satis
11	0.000000	0.172458	0.000000	e-satis
12	0.000000	0.000000	0.000000	e-satis
13	0.196677	0.000000	0.000000	e-satis
14	0.000000	0.000000	0.290445	e-satis
15	0.000000	0.000000	0.000000	e-satis
16	0.000000	0.000000	0.000000	e-satis
17	0.122361	0.115173	0.000000	e-satis
18	0.000000	0.000000	0.000000	e-satis
19	0.000000	0.000000	0.000000	e-satis
20	0.000000	0.058710	0.000000	e-satis
21	0.000000	0.000000	0.000000	e-satis
22	0.000000	0.000000	0.000000	e-satis
23	0.000000	0.000000	0.000000	e-satis

file	java	android	sql	git	way	like \
------	------	---------	-----	-----	-----	--------

0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1	0.000000	0.000000	0.000000	0.000000	0.728914	0.000000	0.000000
2	0.000000	0.000000	0.130150	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.174881	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.000000	0.000000	0.000000	0.140540	0.000000
5	0.000000	0.362108	0.000000	0.000000	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.275010	0.000000	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.000000	0.219137	0.000000	0.000000	0.000000
8	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.032758
9	0.000000	0.000000	0.151689	0.000000	0.000000	0.000000	0.000000
10	0.000000	0.000000	0.337085	0.000000	0.000000	0.125140	0.000000
11	0.000000	0.000000	0.000000	0.000000	0.000000	0.079078	0.164020
12	0.000000	0.000000	0.000000	0.105631	0.000000	0.000000	0.072300
13	0.656317	0.000000	0.000000	0.000000	0.417075	0.085457	0.000000
14	0.108337	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
15	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
16	0.371197	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
17	0.000000	0.000000	0.352152	0.000000	0.000000	0.000000	0.000000
18	0.000000	0.000000	0.000000	0.000000	0.000000	0.084689	0.263487
19	0.000000	0.364640	0.000000	0.000000	0.000000	0.000000	0.000000
20	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
21	0.312392	0.000000	0.000000	0.000000	0.000000	0.122027	0.126552
22	0.082427	0.366784	0.000000	0.000000	0.000000	0.000000	0.066783
23	0.000000	0.000000	0.000000	0.000000	0.000000	0.083640	0.000000
24	0.000000	0.000000	0.000000	0.000000	0.000000	0.026801	0.055589
25	0.000000	0.000000	0.000000	0.000000	0.143193	0.088019	0.091283
26	0.000000	0.071220	0.000000	0.000000	0.000000	0.050015	0.000000
27	0.000000	0.000000	0.000000	0.000000	0.000000	0.081616	0.000000
28	0.000000	0.531605	0.000000	0.000000	0.000000	0.000000	0.064529
29	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.089201
30	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
31	0.000000	0.000000	0.000000	0.000000	0.000000	0.081609	0.000000
32	0.116987	0.000000	0.000000	0.692403	0.000000	0.000000	0.094784
33	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
34	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
35	0.187244	0.000000	0.000000	0.277057	0.000000	0.109712	0.000000
36	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.021477

	application	data	dump	useroutput
0	0.000000	0.000000	0.000000	pupeno
1	0.000000	0.000000	0.000000	pupeno
2	0.000000	0.000000	0.000000	pupeno
3	0.000000	0.000000	0.000000	pupeno
4	0.000000	0.000000	0.000000	pupeno
5	0.000000	0.000000	0.000000	pupeno
6	0.436139	0.261367	0.000000	pupeno
7	0.000000	0.000000	0.000000	pupeno
8	0.000000	0.040432	0.000000	pupeno

9	0.000000	0.000000	0.000000	pupeno
10	0.356390	0.000000	0.000000	pupeno
11	0.000000	0.000000	0.000000	pupeno
12	0.000000	0.267708	0.617252	pupeno
13	0.000000	0.000000	0.000000	pupeno
14	0.000000	0.123813	0.000000	pupeno
15	0.000000	0.000000	0.000000	pupeno
16	0.000000	0.000000	0.000000	pupeno
17	0.000000	0.000000	0.000000	pupeno
18	0.000000	0.000000	0.000000	pupeno
19	0.000000	0.000000	0.000000	pupeno
20	0.000000	0.095551	0.000000	pupeno
21	0.000000	0.000000	0.000000	pupeno
22	0.000000	0.000000	0.000000	pupeno
23	0.000000	0.000000	0.000000	pupeno
24	0.000000	0.000000	0.000000	pupeno
25	0.000000	0.000000	0.000000	pupeno
26	0.000000	0.000000	0.000000	pupeno
27	0.000000	0.000000	0.000000	pupeno
28	0.177202	0.000000	0.000000	pupeno
29	0.000000	0.000000	0.000000	pupeno
30	0.000000	0.000000	0.000000	pupeno
31	0.000000	0.000000	0.000000	pupeno
32	0.000000	0.116987	0.323682	pupeno
33	0.026204	0.000000	0.000000	pupeno
34	0.000000	0.000000	0.000000	pupeno
35	0.000000	0.093622	0.000000	pupeno
36	0.029489	0.000000	0.000000	pupeno

	file	timer	files	java	new	table	application \
0	0.000000	0.000000	0.084239	0.000000	0.000000	0.000000	0.000000
1	0.000000	0.000000	0.000000	0.026395	0.000000	0.533399	0.000000
2	0.351468	0.000000	0.312480	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
4	0.463315	0.000000	0.102980	0.000000	0.000000	0.000000	0.264787
5	0.000000	0.000000	0.000000	0.284629	0.000000	0.000000	0.000000
6	0.000000	0.782791	0.000000	0.066405	0.190127	0.000000	0.000000
7	0.064939	0.000000	0.000000	0.051849	0.371129	0.000000	0.000000
8	0.000000	0.000000	0.097851	0.000000	0.000000	0.000000	0.251599
9	0.000000	0.000000	0.000000	0.146846	0.000000	0.000000	0.000000

	jar	array	bits	useroutput
0	0.000000	0.000000	0.000000	Hamza Yerlikaya
1	0.000000	0.000000	0.000000	Hamza Yerlikaya
2	0.000000	0.000000	0.000000	Hamza Yerlikaya
3	0.000000	0.000000	0.000000	Hamza Yerlikaya
4	0.264787	0.000000	0.000000	Hamza Yerlikaya

5	0.000000	0.00000	0.00000	Hamza Yerlikaya
6	0.000000	0.00000	0.00000	Hamza Yerlikaya
7	0.000000	0.00000	0.00000	Hamza Yerlikaya
8	0.251599	0.00000	0.00000	Hamza Yerlikaya
9	0.000000	0.49458	0.49458	Hamza Yerlikaya

	python	string	like	list	gt	class	want \
0	0.146097	0.433565	0.071733	0.000000	0.000000	0.000000	0.000000
1	0.061488	0.000000	0.060381	0.364949	0.000000	0.000000	0.164387
2	0.000000	0.000000	0.052305	0.000000	0.000000	0.000000	0.071200
3	0.085815	0.636669	0.084269	0.000000	0.000000	0.000000	0.000000
4	0.195965	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
..
59	0.000000	0.061414	0.000000	0.184242	0.067256	0.000000	0.000000
60	0.000000	0.040140	0.079694	0.200699	0.043958	0.090934	0.072322
61	0.102420	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
62	0.000000	0.000000	0.092893	0.000000	0.000000	0.000000	0.063225
63	0.000000	0.000000	0.000000	0.000000	0.000000	0.710432	0.094171

	index	use	value	useroutput
0	0.000000	0.000000	0.000000	Joan Venge
1	0.222751	0.000000	0.000000	Joan Venge
2	0.289438	0.000000	0.000000	Joan Venge
3	0.000000	0.000000	0.000000	Joan Venge
4	0.000000	0.000000	0.000000	Joan Venge
..
59	0.000000	0.000000	0.000000	Joan Venge
60	0.000000	0.000000	0.000000	Joan Venge
61	0.000000	0.000000	0.172141	Joan Venge
62	0.000000	0.072233	0.000000	Joan Venge
63	0.000000	0.000000	0.000000	Joan Venge

[64 rows x 11 columns]

	gt	array	javascript	php	using	lt	jquery \
0	0.000000	0.000000	0.09527	0.000000	0.000000	0.000000	0.000000
1	0.000000	0.000000	0.00000	0.000000	0.000000	0.000000	0.000000
2	0.226733	0.000000	0.00000	0.000000	0.169265	0.244775	0.244775
3	0.000000	0.382036	0.14211	0.000000	0.000000	0.000000	0.000000
4	0.000000	0.000000	0.00000	0.083204	0.000000	0.000000	0.000000
..
74	0.000000	0.602876	0.00000	0.112129	0.000000	0.000000	0.000000
75	0.000000	0.000000	0.00000	0.000000	0.031352	0.000000	0.000000
76	0.332715	0.000000	0.00000	0.000000	0.000000	0.359189	0.000000
77	0.000000	0.000000	0.00000	0.000000	0.000000	0.000000	0.000000
78	0.000000	0.000000	0.00000	0.000000	0.070152	0.000000	0.000000

	id	key	file	useroutput
0	0.000000	0.0	0.0	Ali
1	0.000000	0.0	0.0	Ali
2	0.000000	0.0	0.0	Ali
3	0.000000	0.0	0.0	Ali
4	0.000000	0.0	0.0	Ali
..
74	0.000000	0.0	0.0	Ali
75	0.317373	0.0	0.0	Ali
76	0.000000	0.0	0.0	Ali
77	0.167844	0.0	0.0	Ali
78	0.000000	0.0	0.0	Ali

[79 rows x 11 columns]

	python	want	user	string	gt	dictionary	lt \
0	0.284599	0.000000	0.000000	0.000000	0.0	0.000000	0.000000
1	0.134752	0.000000	0.000000	0.000000	0.0	0.000000	0.000000
2	0.000000	0.000000	0.000000	0.000000	0.0	0.000000	0.127690
3	0.000000	0.000000	0.000000	0.177586	0.0	0.000000	0.000000
4	0.000000	0.000000	0.000000	0.000000	0.0	0.000000	0.000000
..
109	0.000000	0.074997	0.113117	0.000000	0.0	0.000000	0.000000
110	0.071466	0.000000	0.000000	0.000000	0.0	0.000000	0.000000
111	0.053356	0.000000	0.000000	0.000000	0.0	0.076317	0.000000
112	0.000000	0.031898	0.000000	0.000000	0.0	0.000000	0.000000
113	0.000000	0.000000	0.132504	0.000000	0.0	0.000000	0.064626

	use	javascript	return	useroutput
0	0.000000	0.000000	0.000000	TIMEX
1	0.000000	0.000000	0.000000	TIMEX
2	0.056226	0.000000	0.000000	TIMEX
3	0.000000	0.000000	0.000000	TIMEX
4	0.000000	0.000000	0.000000	TIMEX
..
109	0.097172	0.000000	0.000000	TIMEX
110	0.000000	0.09971	0.209897	TIMEX
111	0.000000	0.000000	0.000000	TIMEX
112	0.000000	0.000000	0.000000	TIMEX
113	0.000000	0.000000	0.068021	TIMEX

[114 rows x 11 columns]

	install	pip	python	lt	gt	branch	installed \
0	0.000000	0.000000	0.000000	0.000000	0.043561	0.571753	0.000000
1	0.000000	0.000000	0.000000	0.650278	0.544984	0.000000	0.000000
2	0.349045	0.319958	0.319958	0.000000	0.000000	0.000000	0.000000

3	0.235219	0.211697	0.094087	0.000000	0.000000	0.000000	0.109034
4	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.447027
5	0.427251	0.284834	0.000000	0.000000	0.000000	0.000000	0.000000
6	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
7	0.000000	0.000000	0.338392	0.000000	0.000000	0.000000	0.000000

	flask	version	django	useroutput
0	0.000000	0.000000	0.000000	Matthew Rankin
1	0.000000	0.000000	0.000000	Matthew Rankin
2	0.000000	0.000000	0.000000	Matthew Rankin
3	0.000000	0.000000	0.054517	Matthew Rankin
4	0.533396	0.533396	0.000000	Matthew Rankin
5	0.000000	0.000000	0.000000	Matthew Rankin
6	0.000000	0.000000	0.425746	Matthew Rankin
7	0.000000	0.000000	0.000000	Matthew Rankin

	file	python	want	java	gt	use	bash \
0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1	0.000000	0.000000	0.112223	0.000000	0.000000	0.000000	0.000000
2	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3	0.000000	0.120125	0.000000	0.000000	0.000000	0.000000	0.000000
4	0.399122	0.000000	0.000000	0.000000	0.300058	0.157152	0.165376
5	0.165486	0.000000	0.154401	0.000000	0.000000	0.000000	0.411414
6	0.000000	0.000000	0.000000	0.656906	0.000000	0.000000	0.000000
7	0.098326	0.110882	0.000000	0.000000	0.000000	0.000000	0.000000
8	0.000000	0.460545	0.000000	0.000000	0.000000	0.000000	0.000000
9	0.000000	0.000000	0.121899	0.000000	0.000000	0.000000	0.000000
10	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
11	0.226738	0.000000	0.105775	0.000000	0.000000	0.000000	0.000000
12	0.000000	0.146123	0.000000	0.000000	0.000000	0.306123	0.000000
13	0.075997	0.000000	0.283624	0.000000	0.000000	0.000000	0.000000
14	0.000000	0.112566	0.000000	0.000000	0.225132	0.000000	0.000000
15	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
16	0.000000	0.000000	0.000000	0.543006	0.000000	0.114080	0.000000
17	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
18	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
19	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
20	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
21	0.000000	0.000000	0.086072	0.000000	0.052016	0.054486	0.172010
22	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
23	0.071193	0.000000	0.066424	0.000000	0.000000	0.000000	0.176992
24	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
25	0.000000	0.000000	0.115857	0.000000	0.280062	0.000000	0.000000
26	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
27	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
28	0.314898	0.000000	0.097935	0.000000	0.000000	0.000000	0.260955
29	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

30	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
31	0.000000	0.316141	0.000000	0.000000	0.000000	0.000000	0.000000
32	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
33	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
34	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
35	0.000000	0.000000	0.068072	0.000000	0.082275	0.000000	0.000000
36	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
37	0.175326	0.000000	0.081791	0.000000	0.197713	0.000000	0.000000
38	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
39	0.000000	0.000000	0.000000	0.138102	0.110795	0.000000	0.000000
40	0.236363	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
41	0.000000	0.000000	0.000000	0.000000	0.000000	0.387017	0.000000
42	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
43	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
44	0.297153	0.000000	0.138624	0.000000	0.000000	0.175504	0.000000
45	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
46	0.000000	0.321164	0.000000	0.000000	0.000000	0.000000	0.000000
47	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

	instance	standard	output	useroutput
0	0.000000	0.000000	0.000000	flybywire
1	0.000000	0.000000	0.000000	flybywire
2	0.000000	0.000000	0.000000	flybywire
3	0.000000	0.000000	0.000000	flybywire
4	0.000000	0.498681	0.291836	flybywire
5	0.000000	0.465224	0.217805	flybywire
6	0.000000	0.000000	0.000000	flybywire
7	0.000000	0.000000	0.000000	flybywire
8	0.000000	0.000000	0.000000	flybywire
9	0.000000	0.000000	0.000000	flybywire
10	0.000000	0.000000	0.000000	flybywire
11	0.000000	0.000000	0.000000	flybywire
12	0.000000	0.000000	0.000000	flybywire
13	0.000000	0.000000	0.000000	flybywire
14	0.000000	0.000000	0.000000	flybywire
15	0.000000	0.000000	0.000000	flybywire
16	0.000000	0.000000	0.000000	flybywire
17	0.000000	0.000000	0.000000	flybywire
18	0.000000	0.000000	0.000000	flybywire
19	0.864950	0.000000	0.000000	flybywire
20	0.000000	0.000000	0.000000	flybywire
21	0.000000	0.000000	0.364252	flybywire
22	0.000000	0.000000	0.000000	flybywire
23	0.000000	0.000000	0.281102	flybywire
24	0.000000	0.000000	0.000000	flybywire
25	0.000000	0.000000	0.000000	flybywire
26	0.000000	0.000000	0.000000	flybywire
27	0.000000	0.000000	0.000000	flybywire

28	0.000000	0.000000	0.000000	flybywire
29	0.000000	0.000000	0.000000	flybywire
30	0.000000	0.000000	0.000000	flybywire
31	0.000000	0.000000	0.000000	flybywire
32	0.000000	0.000000	0.000000	flybywire
33	0.000000	0.000000	0.000000	flybywire
34	0.000000	0.000000	0.000000	flybywire
35	0.000000	0.000000	0.000000	flybywire
36	0.000000	0.000000	0.000000	flybywire
37	0.000000	0.000000	0.000000	flybywire
38	0.000000	0.000000	0.000000	flybywire
39	0.000000	0.000000	0.000000	flybywire
40	0.000000	0.000000	0.000000	flybywire
41	0.000000	0.000000	0.000000	flybywire
42	0.000000	0.207097	0.000000	flybywire
43	0.000000	0.000000	0.000000	flybywire
44	0.000000	0.000000	0.000000	flybywire
45	0.317672	0.000000	0.000000	flybywire
46	0.000000	0.000000	0.000000	flybywire
47	0.000000	0.000000	0.000000	flybywire

[]: