

```
In [1]: import pandas as pd
x=pd.read_csv(r'C:\Users\ELCOT\Downloads\Movies Recommendation.csv')
x
```

Out[1]:

	Movie_ID	Movie_Title	Movie_Genre	Movie_Language	Movie_Budget	Movie_Popularity	Movie_Release_Date	Movie_Revenue	Movie_Rt
0	1	Four Rooms	Crime Comedy	en	4000000	22.876230	09-12-1995	4300000	
1	2	Star Wars	Adventure Action Science Fiction	en	11000000	126.393695	25-05-1977	775398007	
2	3	Finding Nemo	Animation Family	en	94000000	85.688789	30-05-2003	940335536	
3	4	Forrest Gump	Comedy Drama Romance	en	55000000	138.133331	06-07-1994	677945399	
4	5	American Beauty	Drama	en	15000000	80.878605	15-09-1999	356296601	
...
4755	4784	Midnight Cabaret	Horror	en	0	0.001389	01-01-1990	0	
4756	4785	Growing Up Smith	Comedy Family Drama	en	0	0.710870	03-02-2017	0	
4757	4786	8 Days	Thriller Drama	en	0	0.015295	15-06-2014	0	
4758	4787	Running Forever	Family	en	0	0.028756	27-10-2015	0	
4759	4788	To Be Frank, Sinatra at 100	Documentary	en	2	0.050625	12-12-2015	0	

4760 rows × 21 columns

```
In [2]: x.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4760 entries, 0 to 4759
Data columns (total 21 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   Movie_ID                             4760 non-null   int64
1   Movie_Title                           4760 non-null   object
2   Movie_Genre                           4760 non-null   object
3   Movie_Language                         4760 non-null   object
4   Movie_Budget                           4760 non-null   int64
5   Movie_Popularity                       4760 non-null   float64
6   Movie_Release_Date                     4760 non-null   object
7   Movie_Revenue                           4760 non-null   int64
8   Movie_Runtime                           4758 non-null   float64
9   Movie_Vote                             4760 non-null   float64
10  Movie_Vote_Count                       4760 non-null   int64
11  Movie_Homepage                         1699 non-null   object
12  Movie_Keywords                         4373 non-null   object
13  Movie_Overview                         4757 non-null   object
14  Movie_Production_House                 4760 non-null   object
15  Movie_Production_Country               4760 non-null   object
16  Movie_Spoken_Language                  4760 non-null   object
17  Movie_Tagline                           3942 non-null   object
18  Movie_Cast                             4733 non-null   object
19  Movie_Crew                             4760 non-null   object
20  Movie_Director                         4738 non-null   object
dtypes: float64(3), int64(4), object(14)
memory usage: 781.1+ KB

```

```
In [3]: x.describe()
```

```

Out[3]:
      Movie_ID  Movie_Budget  Movie_Popularity  Movie_Revenue  Movie_Runtime  Movie_Vote  Movie_Vote_Count
count  4760.000000    4.760000e+03    4760.000000    4.760000e+03    4758.000000    4760.000000    4760.000000
mean    2382.566387    2.920129e+07     21.599510    8.263743e+07     107.184111     6.113866     692.508403
std     1377.270159    4.075620e+07     31.887919    1.630554e+08     21.960332     1.141294    1235.007337
min       1.000000    0.000000e+00     0.000372    0.000000e+00     0.000000     0.000000     0.000000
25%     1190.750000    9.257500e+05     4.807074    0.000000e+00     94.000000     5.600000     55.000000
50%     2380.500000    1.500000e+07    13.119058    1.944716e+07    104.000000     6.200000    238.000000
75%     3572.250000    4.000000e+07    28.411929    9.341276e+07    118.000000     6.800000    740.250000
max     4788.000000    3.800000e+08    875.581305    2.787965e+09    338.000000    10.000000   13752.000000

```

```
In [4]: x.head
```

```

Out[4]:
<bound method NDFrame.head of
0      1      Four Rooms      Crime Comedy      Movie_Genre \
1      2      Star Wars      Adventure Action Science Fiction
2      3      Finding Nemo      Animation Family
3      4      Forrest Gump      Comedy Drama Romance
4      5      American Beauty      Drama
...      ...      ...      ...
4755    4784      Midnight Cabaret      Horror
4756    4785      Growing Up Smith      Comedy Family Drama
4757    4786      8 Days      Thriller Drama
4758    4787      Running Forever      Family
4759    4788      To Be Frank, Sinatra at 100      Documentary

      Movie_Language  Movie_Budget  Movie_Popularity  Movie_Release_Date \
0      en      4000000      22.876230      09-12-1995
1      en      11000000      126.393695      25-05-1977
2      en      94000000      85.688789      30-05-2003
3      en      55000000      138.133331      06-07-1994
4      en      15000000      80.878605      15-09-1999
...      ...      ...      ...
4755    en      0      0.001389      01-01-1990
4756    en      0      0.710870      03-02-2017
4757    en      0      0.015295      15-06-2014
4758    en      0      0.028756      27-10-2015
4759    en      2      0.050625      12-12-2015

      Movie_Revenue  Movie_Runtime  Movie_Vote  ... \
0      4300000      98.0      6.5      ...
1      775398007      121.0      8.1      ...
2      940335536      100.0      7.6      ...
3      677945399      142.0      8.2      ...
4      356296601      122.0      7.9      ...
...      ...      ...      ...
4755      0      94.0      0.0      ...
4756      0      102.0      7.4      ...
4757      0      90.0      0.0      ...
4758      0      88.0      0.0      ...
4759      0      NaN      0.0      ...

      Movie_Homepage \

```

```

0      NaN
1      http://www.starwars.com/films/star-wars-episod...
2      http://movies.disney.com/finding-nemo
3      NaN
4      http://www.dreamworks.com/ab/
...
4755   NaN
4756   http://www.growingupsmithmovie.com
4757   NaN
4758   NaN
4759   NaN

```

```

                                Movie_Keywords \
0      hotel new year's eve witch bet hotel room
1      android galaxy hermit death star lightsaber
2      father son relationship harbor underwater fish...
3      vietnam veteran hippie mentally disabled runni...
4      male nudity female nudity adultery midlife cri...
...
4755   NaN
4756   NaN
4757   christian film sex trafficking
4758   NaN
4759   music actors legendary performer classic hollyw...

```

```

                                Movie_Overview \
0      It's Ted the Bellhop's first night on the job...
1      Princess Leia is captured and held hostage by ...
2      Nemo, an adventurous young clownfish, is unexp...
3      A man with a low IQ has accomplished great thi...
4      Lester Burnham, a depressed suburban father in...
...
4755   A Broadway producer puts on a play with a Devi...
4756   In 1979, an Indian family moves to America wit...
4757   After sneaking to a party with her friends, 16...
4758   After being estranged since her mother's death...
4759   NaN

```

```

                                Movie_Production_House \
0      [{"name": "Miramax Films", "id": 14}, {"name":...
1      [{"name": "Lucasfilm", "id": 1}, {"name": "Twe...
2      [{"name": "Pixar Animation Studios", "id": 3}]
3      [{"name": "Paramount Pictures", "id": 4}]
4      [{"name": "DreamWorks SKG", "id": 27}, {"name":...
...
4755   []
4756   []
4757   [{"name": "After Eden Pictures", "id": 85248}]
4758   [{"name": "New Kingdom Pictures", "id": 41671}]
4759   [{"name": "Eyeline Entertainment", "id": 60343}]

```

```

                                Movie_Production_Country \
0      [{"iso_3166_1": "US", "name": "United States o...
1      [{"iso_3166_1": "US", "name": "United States o...
2      [{"iso_3166_1": "US", "name": "United States o...
3      [{"iso_3166_1": "US", "name": "United States o...
4      [{"iso_3166_1": "US", "name": "United States o...
...
4755   []
4756   []
4757   [{"iso_3166_1": "US", "name": "United States o...
4758   [{"iso_3166_1": "US", "name": "United States o...
4759   [{"iso_3166_1": "GB", "name": "United Kingdom"}]

```

```

                                Movie_Spoken_Language \
0      [{"iso_639_1": "en", "name": "English"}]
1      [{"iso_639_1": "en", "name": "English"}]
2      [{"iso_639_1": "en", "name": "English"}]
3      [{"iso_639_1": "en", "name": "English"}]
4      [{"iso_639_1": "en", "name": "English"}]
...
4755   [{"iso_639_1": "en", "name": "English"}]
4756   [{"iso_639_1": "en", "name": "English"}]
4757   [{"iso_639_1": "en", "name": "English"}]
4758   []
4759   []

```

```

                                Movie_Tagline \
0      Twelve outrageous guests. Four scandalous requ...
1      A long time ago in a galaxy far, far away...
2      There are 3.7 trillion fish in the ocean, they...
3      The world will never be the same, once you've ...
4      Look closer.
...
4755   The hot spot where Satan's waitin'.
4756   It's better to stand out than to fit in.
4757   She never knew it could happen to her...
4758   NaN
4759   NaN

```

```

                                Movie_Cast \
0    Tim Roth Antonio Banderas Jennifer Beals Madon...
1    Mark Hamill Harrison Ford Carrie Fisher Peter ...
2    Albert Brooks Ellen DeGeneres Alexander Gould ...
3    Tom Hanks Robin Wright Gary Sinise Mykelti Wil...
4    Kevin Spacey Annette Bening Thora Birch Wes Be...
...
4755 Lisa Hart Carroll Michael Des Barres Paul Drak...
4756 Roni Akurati Brighton Sharbino Jason Lee Anjul...
4757 Nicole Smolen Kim Baldwin Ariana Stephens Brys...
4758                                     NaN
4759                                Tony Oppedisano

```

```

                                Movie_Crew      Movie_Director
0    [{'name': 'Allison Anders', 'gender': 1, 'depa...  Allison Anders
1    [{'name': 'George Lucas', 'gender': 2, 'depart...  George Lucas
2    [{'name': 'Andrew Stanton', 'gender': 2, 'depa...  Andrew Stanton
3    [{'name': 'Alan Silvestri', 'gender': 2, 'depa...  Robert Zemeckis
4    [{'name': 'Thomas Newman', 'gender': 2, 'depar...  Sam Mendes
...
4755 [{'name': 'Pece Dingo', 'gender': 0, 'departme...  Pece Dingo
4756 [{'name': 'Frank Lotito', 'gender': 0, 'depart...  Frank Lotito
4757 [{'name': 'Jaco Booyens', 'gender': 0, 'depart...  Jaco Booyens
4758                                     []                NaN
4759 [{'name': 'Simon Napier-Bell', 'gender': 0, 'd...  Simon Napier-Bell

```

[4760 rows x 21 columns]>

In [5]: x.columns

Out[5]: Index(['Movie_ID', 'Movie_Title', 'Movie_Genre', 'Movie_Language',
'Movie_Budget', 'Movie_Popularity', 'Movie_Release_Date',
'Movie_Revenue', 'Movie_Runtime', 'Movie_Vote', 'Movie_Vote_Count',
'Movie_Homepage', 'Movie_Keywords', 'Movie_Overview',
'Movie_Production_House', 'Movie_Production_Country',
'Movie_Spoken_Language', 'Movie_Tagline', 'Movie_Cast', 'Movie_Crew',
'Movie_Director'],
dtype='object')

In [6]: x.shape

Out[6]: (4760, 21)

In [7]: x_features=x[['Movie_Genre','Movie_Keywords','Movie_Tagline','Movie_Cast','Movie_Director']].fillna('')

In [8]: x_features.shape

Out[8]: (4760, 5)

In [9]: x_features

Out[9]:

	Movie_Genre	Movie_Keywords	Movie_Tagline	Movie_Cast	Movie_Director
0	Crime Comedy	hotel new year's eve witch bet hotel room	Twelve outrageous guests. Four scandalous requ...	Tim Roth Antonio Banderas Jennifer Beals Madon...	Allison Anders
1	Adventure Action Science Fiction	android galaxy hermit death star lightsaber	A long time ago in a galaxy far, far away...	Mark Hamill Harrison Ford Carrie Fisher Peter ...	George Lucas
2	Animation Family	father son relationship harbor underwater fish...	There are 3.7 trillion fish in the ocean, they...	Albert Brooks Ellen DeGeneres Alexander Gould ...	Andrew Stanton
3	Comedy Drama Romance	vietnam veteran hippie mentally disabled runni...	The world will never be the same, once you've ...	Tom Hanks Robin Wright Gary Sinise Mykelti Wil...	Robert Zemeckis
4	Drama	male nudity female nudity adultery midlife cri...	Look closer.	Kevin Spacey Annette Bening Thora Birch Wes Be...	Sam Mendes
...
4755	Horror		The hot spot where Satan's waitin'.	Lisa Hart Carroll Michael Des Barres Paul Drak...	Pece Dingo
4756	Comedy Family Drama		It's better to stand out than to fit in.	Roni Akurati Brighton Sharbino Jason Lee Anjul...	Frank Lotito
4757	Thriller Drama	christian film sex trafficking	She never knew it could happen to her...	Nicole Smolen Kim Baldwin Ariana Stephens Brys...	Jaco Booyens
4758	Family				
4759	Documentary	music actors legendary performer classic hollyw...		Tony Oppedisano	Simon Napier- Bell

4760 rows x 5 columns

In [10]: s=x_features['Movie_Genre'] + ' ' + x_features['Movie_Keywords'] + ' ' + x_features['Movie_Tagline'] + ' ' +
s

```
Out[10]: 0      Crime Comedy  hotel new year's eve witch bet h...
1      Adventure Action Science Fiction  android gala...
2      Animation Family  father son relationship harb...
3      Comedy Drama Romance  vietnam veteran hippie m...
4      Drama  male nudity female nudity adultery midl...

...
4755   Horror      The hot spot where Satan's waitin'....
4756   Comedy Family Drama      It's better to stand o...
4757   Thriller Drama  christian film sex trafficking...
4758                                     Family
4759   Documentary  music actors legendary performer c...
Length: 4760, dtype: object
```

```
In [11]: s.shape
```

```
Out[11]: (4760,)
```

```
In [12]: from sklearn.feature_extraction.text import TfidfVectorizer
tfidf=TfidfVectorizer()
s=tfidf.fit_transform(s)
s.shape
```

```
Out[12]: (4760, 17258)
```

```
In [13]: print(s)
```

```
(0, 617)      0.1633382144407513
(0, 492)      0.1432591540388685
(0, 15413)    0.1465525095337543
(0, 9675)     0.14226057295252661
(0, 9465)     0.1659841367820977
(0, 1390)     0.16898383612799558
(0, 7825)     0.09799561597509843
(0, 1214)     0.13865857545144072
(0, 729)      0.13415063359531618
(0, 13093)    0.1432591540388685
(0, 15355)    0.10477815972666779
(0, 9048)     0.0866842116160778
(0, 11161)    0.06250380151644369
(0, 16773)    0.17654247479915475
(0, 5612)     0.08603537588547631
(0, 16735)    0.10690083751525419
(0, 7904)     0.13348000542112332
(0, 15219)    0.09800472886453934
(0, 11242)    0.07277788238484746
(0, 3878)     0.11998399582562203
(0, 5499)     0.11454057510303811
(0, 7071)     0.19822417598406614
(0, 7454)     0.14745635785412262
(0, 1495)     0.19712637387361423
(0, 9206)     0.15186283580984414
:
(4757, 5455)  0.12491480594769522
(4757, 2967)  0.16273475835631626
(4757, 8464)  0.23522565554066333
(4757, 6938)  0.17088173678136628
(4757, 8379)  0.17480603856721913
(4757, 15303) 0.07654356007668191
(4757, 15384) 0.09754322497537371
(4757, 7649)  0.11479421494340192
(4757, 10896) 0.14546473055066447
(4757, 4494)  0.05675298448720501
(4758, 5238)  1.0
(4759, 11264) 0.33947721804318337
(4759, 11708) 0.33947721804318337
(4759, 205)   0.3237911628497312
(4759, 8902)  0.3040290704566037
(4759, 14062) 0.3237911628497312
(4759, 3058)  0.2812896191863103
(4759, 7130)  0.26419662449963793
(4759, 10761) 0.3126617295732147
(4759, 4358)  0.18306542312175342
(4759, 14051) 0.20084315377640435
(4759, 5690)  0.19534291014627303
(4759, 15431) 0.19628653185946862
(4759, 1490)  0.21197258705292082
(4759, 10666) 0.15888268987343043
```

```
In [14]: from sklearn.metrics.pairwise import cosine_similarity
Similarity_Score=cosine_similarity(s)
Similarity_Score
```

```
Out[14]: array([[1.          , 0.01351235, 0.03570468, ..., 0.          , 0.          ,
        [0.01351235, 1.          , 0.00806674, ..., 0.          , 0.          ,
        [0.03570468, 0.00806674, 1.          , ..., 0.          , 0.08014876,
        ...,
        [0.          , 0.          , 0.          , ..., 1.          , 0.          ,
        [0.          , 0.          , 0.08014876, ..., 0.          , 1.          ,
        [0.          , 0.          , 0.          , ..., 0.          , 0.          ,
        [0.          , 0.          , 0.          , ..., 0.          , 0.          ,
        1.          ]])
```

```
In [15]: Similarity_Score.shape
```

```
Out[15]: (4760, 4760)
```

```
In [16]: Favourite_Movie_Name=input(' Enter your favourite movie name:')
```

```
Enter your favourite movie name:titanic
```

```
In [17]: All_movies_Title_List=x['Movie_Title'].tolist()
import difflib
Movie_Recommendation=difflib.get_close_matches(Favourite_Movie_Name,All_movies_Title_List)
print(Movie_Recommendation)

['Titanic', 'Maniac', 'Hitman']
```

```
In [18]: Close_Match=Movie_Recommendation[0]
print(Close_Match)
```

```
Titanic
```

```
In [19]: Index_of_Close_Match_Movie=x[x.Movie_Title==Close_Match]['Movie_ID'].values[0]
print(Index_of_Close_Match_Movie)
```

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256
```

```
In [20]: Recommendation_Score=list(enumerate(Similarity_Score[Index_of_Close_Match_Movie]))
print(Recommendation_Score)
```

```
[(0, 0.004374333531035219), (1, 0.0), (2, 0.02962710596389098), (3, 0.029431364469359046), (4, 0.06114423272641
8446), (5, 0.03968330416088574), (6, 0.0), (7, 0.0015674440938736277), (8, 0.002369653234793676), (9, 0.0), (10
, 0.006486699078583746), (11, 0.002259515957833609), (12, 0.0023300836204128406), (13, 0.0), (14, 0.0), (15, 0.
030879578299686183), (16, 0.0018186439343890256), (17, 0.0), (18, 0.007928946144468162), (19, 0.023250788764979
873), (20, 0.05162660237533076), (21, 0.008842640644176428), (22, 0.016603765519491834), (23, 0.002273797719706
8216), (24, 0.0014251026316195808), (25, 0.001804922488955549), (26, 0.00213494178323791), (27, 0.0358673522281
17405), (28, 0.0), (29, 0.0020778603573590885), (30, 0.0), (31, 0.002052078730680511), (32, 0.00191345603172353
87), (33, 0.06129604264732633), (34, 0.03483684662317486), (35, 0.0), (36, 0.048070546709399024), (37, 0.0), (3
8, 0.006956187745381804), (39, 0.0), (40, 0.006828028267454018), (41, 0.0024279218398710117), (42, 0.0062261037
46286325), (43, 0.02941378081879961), (44, 0.056611102670555156), (45, 0.0), (46, 0.03334926271263272), (47, 0.
00540280646327488), (48, 0.009111086676461908), (49, 0.0), (50, 0.006011163686360468), (51, 0.02629352143876507
3), (52, 0.03783042263675596), (53, 0.0), (54, 0.0), (55, 0.0), (56, 0.0), (57, 0.0), (58, 0.0), (59, 0.0), (60
, 0.001866515569695238), (61, 0.03305286044774592), (62, 0.0024090139669009085), (63, 0.0017365563482193511), (
64, 0.03951170108697503), (65, 0.0), (66, 0.002177712704997993), (67, 0.0), (68, 0.015225091209410837), (69, 0.0
), (70, 0.040888532001355095), (71, 0.03144307992477606), (72, 0.005903290685234333), (73, 0.02989320069017052
7), (74, 0.0356057670527094), (75, 0.0), (76, 0.0), (77, 0.0), (78, 0.0), (79, 0.024023311724516473), (80, 0.0)
, (81, 0.006030909144364157), (82, 0.0016557943933514251), (83, 0.006168212135977909), (84, 0.03064324153752903
3), (85, 0.042472505542808896), (86, 0.00523480602103935), (87, 0.007982360491561945), (88, 0.03083370870434358
5), (89, 0.006863126910999211), (90, 0.016352104174793953), (91, 0.0), (92, 0.0019202175374560568), (93, 0.0320
326096069166), (94, 0.03071270494023146), (95, 0.017201409449247883), (96, 0.06558477591803506), (97, 0.0019148
265300192992), (98, 0.002136567330846184), (99, 0.047386401483155385), (100, 0.0), (101, 0.0), (102, 0.0), (103
, 0.0018898981858567236), (104, 0.002195743836370109), (105, 0.008200810927177733), (106, 0.060692990411505894)
, (107, 0.0024747103429199526), (108, 0.005883076466826229), (109, 0.04551419202942347), (110, 0.0), (111, 0.00
7681347415118708), (112, 0.007960751185829973), (113, 0.0017942956784200367), (114, 0.0021840441749834743), (11
5, 0.03423264610455312), (116, 0.0020593508580328515), (117, 0.0), (118, 0.0), (119, 0.002140709294565251), (12
0, 0.05718172266621863), (121, 0.0020054136914547794), (122, 0.034437047923655574), (123, 0.0157063766401466),
(124, 0.022819652831294054), (125, 0.0), (126, 0.06685903282990628), (127, 0.03259788706998717), (128, 0.0), (1
29, 0.0015236681998072063), (130, 0.0), (131, 0.028884798766601855), (132, 0.0019344693432360306), (133, 0.0),
(134, 0.0), (135, 0.01670777328296252), (136, 0.0020149538700165266), (137, 0.0062668232618054015), (138, 0.022
559224771183474), (139, 0.0068293958021897), (140, 0.0020439134088768287), (141, 0.05181728604472949), (142, 0.
050908828034154065), (143, 0.0063853067942377375), (144, 0.04957735056337628), (145, 0.012410383018406763), (14
6, 0.0), (147, 0.00715393605906402), (148, 0.005523670028620002), (149, 0.032672712847621015), (150, 0.0), (151
, 0.0), (152, 0.0), (153, 0.0), (154, 0.002048125291371734), (155, 0.0), (156, 0.0017725376162875247), (157, 0.
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In [21]: len(Recommendation_Score)

Out[21]: 4760

In [22]: Sorted_Similar_Movies=sorted(Recommendation_Score,key=lambda c:c[1],reverse=True)
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(3907, 0.0), (3908, 0.0), (3909, 0.0), (3912, 0.0), (3914, 0.0), (3916, 0.0), (3918, 0.0), (3921, 0.0), (3923, 0.0), (3926, 0.0), (3929, 0.0), (3930, 0.0), (3931, 0.0), (3933, 0.0), (3934, 0.0), (3936, 0.0), (3937, 0.0), (3940, 0.0), (3942, 0.0), (3943, 0.0), (3948, 0.0), (3950, 0.0), (3955, 0.0), (3963, 0.0), (3966, 0.0), (3968, 0.0), (3969, 0.0), (3970, 0.0), (3971, 0.0), (3972, 0.0), (3975, 0.0), (3977, 0.0), (3979, 0.0), (3980, 0.0), (3981, 0.0), (3988, 0.0), (3989, 0.0), (3991, 0.0), (3994, 0.0), (3995, 0.0), (3997, 0.0), (3998, 0.0), (4001, 0.0), (4010, 0.0), (4012, 0.0), (4021, 0.0), (4026, 0.0), (4027, 0.0), (4031, 0.0), (4034, 0.0), (4035, 0.0), (4037, 0.0), (4039, 0.0), (4040, 0.0), (4041, 0.0), (4043, 0.0), (4044, 0.0), (4047, 0.0), (4055, 0.0), (4057, 0.0), (4058, 0.0), (4061, 0.0), (4064, 0.0), (4065, 0.0), (4071, 0.0), (4072, 0.0), (4073, 0.0), (4076, 0.0), (4077, 0.0), (4078, 0.0), (4086, 0.0), (4090, 0.0), (4091, 0.0), (4099, 0.0), (4100, 0.0), (4103, 0.0), (4106, 0.0), (4108, 0.0), (4110, 0.0), (4112, 0.0), (4114, 0.0), (4115, 0.0), (4120, 0.0), (4127, 0.0), (4128, 0.0), (4131, 0.0), (4134, 0.0), (4144, 0.0), (4146, 0.0), (4149, 0.0), (4157, 0.0), (4158, 0.0), (4162, 0.0), (4166, 0.0), (4167, 0.0), (4168, 0.0), (4170, 0.0), (4179, 0.0), (4180, 0.0), (4181, 0.0), (4185, 0.0), (4186, 0.0), (4188, 0.0), (4190, 0.0), (4191, 0.0), (4194, 0.0), (4195, 0.0), (4196, 0.0), (4198, 0.0), (4199, 0.0), (4201, 0.0), (4204, 0.0), (4207, 0.0), (4208, 0.0), (4210, 0.0), (4211, 0.0), (4212, 0.0), (4214, 0.0), (4215, 0.0), (4217, 0.0), (4218, 0.0), (4219, 0.0), (4223, 0.0), (4224, 0.0), (4229, 0.0), (4234, 0.0), (4236, 0.0), (4238, 0.0), (4239, 0.0), (4240, 0.0), (4241, 0.0), (4248, 0.0), (4250, 0.0), (4251, 0.0), (4252, 0.0), (4253, 0.0), (4258, 0.0), (4260, 0.0), (4270, 0.0), (4271, 0.0), (4272, 0.0), (4276, 0.0), (4278, 0.0), (4279, 0.0), (4285, 0.0), (4290, 0.0), (4291, 0.0), (4294, 0.0), (4297, 0.0), (4300, 0.0), (4302, 0.0), (4303, 0.0), (4307, 0.0), (4310, 0.0), (4312, 0.0), (4313, 0.0), (4314, 0.0), (4315, 0.0), (4316, 0.0), (4317, 0.0), (4319, 0.0), (4323, 0.0), (4328, 0.0), (4331, 0.0), (4332, 0.0), (4339, 0.0), (4341, 0.0), (4342, 0.0), (4346, 0.0), (4347, 0.0), (4352, 0.0), (4353, 0.0), (4358, 0.0), (4360, 0.0), (4364, 0.0), (4365, 0.0), (4367, 0.0), (4370, 0.0), (4372, 0.0), (4373, 0.0), (4376, 0.0), (4377, 0.0), (4378, 0.0), (4383, 0.0), (4384, 0.0), (4388, 0.0), (4389, 0.0), (4392, 0.0), (4393, 0.0), (4405, 0.0), (4406, 0.0), (4408, 0.0), (4410, 0.0), (4413, 0.0), (4414, 0.0), (4415, 0.0), (4417, 0.0), (4421, 0.0), (4424, 0.0), (4425, 0.0), (4426, 0.0), (4434, 0.0), (4437, 0.0), (4438, 0.0), (4439, 0.0), (4441, 0.0), (4447, 0.0), (4451, 0.0), (4452, 0.0), (4453, 0.0), (4454, 0.0), (4455, 0.0), (4456, 0.0), (4457, 0.0), (4460, 0.0), (4463, 0.0), (4464, 0.0), (4467, 0.0), (4468, 0.0), (4478, 0.0), (4480, 0.0), (4483, 0.0), (4485, 0.0), (4488, 0.0), (4491, 0.0), (4492, 0.0), (4493, 0.0), (4496, 0.0), (4499, 0.0), (4500, 0.0), (4506, 0.0), (4508, 0.0), (4509, 0.0), (4513, 0.0), (4514, 0.0), (4515, 0.0), (4519, 0.0), (4524, 0.0), (4525, 0.0), (4526, 0.0), (4527, 0.0), (4532, 0.0), (4537, 0.0), (4539, 0.0), (4541, 0.0), (4547, 0.0), (4548, 0.0), (4549, 0.0), (4552, 0.0), (4556, 0.0), (4558, 0.0), (4559, 0.0), (4560, 0.0), (4561, 0.0), (4562, 0.0), (4564, 0.0), (4565, 0.0), (4568, 0.0), (4569, 0.0), (4570, 0.0), (4577, 0.0), (4578, 0.0), (4580, 0.0), (4585, 0.0), (4586, 0.0), (4588, 0.0), (4592, 0.0), (4595, 0.0), (4597, 0.0), (4599, 0.0), (4600, 0.0), (4609, 0.0), (4613, 0.0), (4615, 0.0), (4618, 0.0), (4622, 0.0), (4630, 0.0), (4631, 0.0), (4635, 0.0), (4639, 0.0), (4642, 0.0), (4644, 0.0), (4645, 0.0), (4646, 0.0), (4647, 0.0), (4648, 0.0), (4651, 0.0), (4654, 0.0), (4655, 0.0), (4659, 0.0), (4662, 0.0), (4664, 0.0), (4665, 0.0), (4666, 0.0), (4671, 0.0), (4672, 0.0), (4675, 0.0), (4676, 0.0), (4678, 0.0), (4681, 0.0), (4682, 0.0), (4689, 0.0), (4690, 0.0), (4691, 0.0), (4695, 0.0), (4697, 0.0), (4698, 0.0), (4700, 0.0), (4702, 0.0), (4703, 0.0), (4708, 0.0), (4711, 0.0), (4714, 0.0), (4716, 0.0), (4720, 0.0), (4728, 0.0), (4730, 0.0), (4737, 0.0), (4738, 0.0), (4740, 0.0), (4741, 0.0), (4742, 0.0), (4745, 0.0), (4746, 0.0), (4750, 0.0), (4751, 0.0), (4754, 0.0), (4755, 0.0), (4758, 0.0), (4759, 0.0)]

```
In [23]: print('Top 30 Movies Suggested for you : \n')
i=1
for movie in Sorted_Similar_Movies:
    index=movie[0]
    title_from_index=x[x.index==index]['Movie_Title'].values[0]
    if (i<31):
        print(i, '.', title_from_index)
        i+=1
```

Top 30 Movies Suggested for you :

- 1 . City of God
- 2 . Night of the Living Dead
- 3 . Step Up 2: The Streets
- 4 . A Nightmare on Elm Street 3: Dream Warriors
- 5 . Two Evil Eyes
- 6 . The Family Man
- 7 . S.W.A.T.
- 8 . Tuck Everlasting
- 9 . Disturbing Behavior
- 10 . The Place Beyond the Pines
- 11 . Crash
- 12 . Salton Sea
- 13 . Masked and Anonymous
- 14 . ZMD: Zombies of Mass Destruction
- 15 . Closer
- 16 . Hollow Man
- 17 . Trash
- 18 . Get Rich or Die Tryin'
- 19 . Thirteen Conversations About One Thing
- 20 . Like Crazy
- 21 . Enemy of the State
- 22 . Chloe
- 23 . Down Terrace
- 24 . The Cry of the Owl
- 25 . Logan's Run
- 26 . Collateral Damage
- 27 . The Hurt Locker
- 28 . Bad Santa
- 29 . Body Double
- 30 . City By The Sea

```
In [ ]: Movie_name=input('Enter your favourite movie name :')
list_of_all_titles=x['Movie_Title'].tolist()
Find_Close_Match=difflib.get_close_matches(['Movie_Name'], list_of_all_titles)
Close_Match=Find_Close_Match[0]
Index_of_Movie=x[x.Movie_Title==Close_Match]['Movie_ID'].values[0]
Recommendation_Score=list(enumerate(Similarity_Score[Index_of_Movie]))
sorted_similar_movies=sorted(Recommendation_Score, key=lambda c:c[1], reverse=True)
```

```
print('Top 10 movies suggested for you :\n')
i=1
for movie in sorted_similar_movies:
    index=movie[0]
    title_from_index=x[x.index==index]['Movie_Title'].values[0]
    if (i<11):
        print(i, '.', title_from_index)
        i+=1
```

In []: