

After running program

Term Frequency(TF)

	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10
antony	1	1	0	0	0	1	0	0	0	0
brutus	1	1	0	1	0	0	0	0	0	0
caeser	1	1	0	1	1	1	0	0	0	0
calpurnia	0	1	0	0	0	0	0	0	0	0
cleopatra	1	0	0	0	0	0	0	0	0	0
mercy	1	0	1	1	1	1	0	0	0	0
worse	1	0	1	1	1	0	0	0	0	0
angel	0	0	0	0	0	0	1	1	1	0
fool	0	0	0	0	0	0	1	1	1	1
fear	0	0	0	0	0	0	1	1	0	1
in	0	0	0	0	0	0	1	1	1	1
rush	0	0	0	0	0	0	1	1	1	1
to	0	0	0	0	0	0	1	1	1	1
tread	0	0	0	0	0	0	1	1	1	1
where	0	0	0	0	0	0	1	1	1	1

w tf(1+ log tf)

	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10
antony	1	1	0	0	0	1	0	0	0	0
brutus	1	1	0	1	0	0	0	0	0	0
caeser	1	1	0	1	1	1	0	0	0	0
calpurnia	0	1	0	0	0	0	0	0	0	0
cleopatra	1	0	0	0	0	0	0	0	0	0
mercy	1	0	1	1	1	1	0	0	0	0
worse	1	0	1	1	1	0	0	0	0	0
angel	0	0	0	0	0	0	1	1	1	0
fool	0	0	0	0	0	0	1	1	1	1
fear	0	0	0	0	0	0	1	1	0	1
in	0	0	0	0	0	0	1	1	1	1
rush	0	0	0	0	0	0	1	1	1	1
to	0	0	0	0	0	0	1	1	1	1
tread	0	0	0	0	0	0	1	1	1	1
where	0	0	0	0	0	0	1	1	1	1

	df	idf
antony	3	0.522879
brutus	3	0.522879
caesar	5	0.30103
calpurnia	1	1
cleopatra	1	1
mercy	5	0.30103
worse	4	0.39794
angel	3	0.522879
fool	4	0.39794
fear	3	0.522879
in	4	0.39794
rush	4	0.39794
to	4	0.39794
tread	4	0.39794
where	4	0.39794

tf*idf

	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10
antony	0.522879	0.522879	0	0	0	0.5229	0	0	0	0
brutus	0.522879	0.522879	0	0.5229	0	0	0	0	0	0
caesar	0.30103	0.30103	0	0.301	0.301	0.301	0	0	0	0
calpurnia	0	1	0	0	0	0	0	0	0	0
cleopatra	1	0	0	0	0	0	0	0	0	0
mercy	0.30103	0	0.301	0.301	0.301	0.301	0	0	0	0
worse	0.39794	0	0.3979	0.3979	0.3979	0	0	0	0	0
angel	0	0	0	0	0	0	0.5229	0.52288	0.5229	0
fool	0	0	0	0	0	0	0.3979	0.39794	0.3979	0.3979
fear	0	0	0	0	0	0	0.5229	0.52288	0	0.5229
in	0	0	0	0	0	0	0.3979	0.39794	0.3979	0.3979
rush	0	0	0	0	0	0	0.3979	0.39794	0.3979	0.3979
to	0	0	0	0	0	0	0.3979	0.39794	0.3979	0.3979
tread	0	0	0	0	0	0	0.3979	0.39794	0.3979	0.3979
where	0	0	0	0	0	0	0.3979	0.39794	0.3979	0.3979

d1 length	1.373462
d2 length	1.279618
d3 length	0.498974
d4 length	0.782941
d5 length	0.582747
d6 length	0.67427
d7 length	1.223496
d8 length	1.223496
d9 length	1.106137

d10 length 1.106137

Normalized tf.idf

	d1	d2	d3	d4	d5	d6	d7	d8	d9	d10
antony	0.380701	0.408621	0	0	0	0.7755	0	0	0	0
brutus	0.380701	0.408621	0	0.6678	0	0	0	0	0	0
caesar	0.219176	0.23525	0	0.3845	0.5166	0.4465	0	0	0	0
calpurnia	0	0.781483	0	0	0	0	0	0	0	0
cleopatra	0.728087	0	0	0	0	0	0	0	0	0
mercy	0.219176	0	0.6033	0.3845	0.5166	0.4465	0	0	0	0
worse	0.289735	0	0.7975	0.5083	0.6829	0	0	0	0	0
angel	0	0	0	0	0	0	0.4274	0.42736	0.4727	0
fool	0	0	0	0	0	0	0.3252	0.32525	0.3598	0.3598
fear	0	0	0	0	0	0	0.4274	0.42736	0	0.4727
in	0	0	0	0	0	0	0.3252	0.32525	0.3598	0.3598
rush	0	0	0	0	0	0	0.3252	0.32525	0.3598	0.3598
to	0	0	0	0	0	0	0.3252	0.32525	0.3598	0.3598
tread	0	0	0	0	0	0	0.3252	0.32525	0.3598	0.3598
where	0	0	0	0	0	0	0.3252	0.32525	0.3598	0.3598

After inserting queries

query 1

fools fear in

query

product (query * matched docs)

	tf-raw	$\sqrt{\text{tf}(1 + \log t)}$	idf	tf*idf	normalized	doc 7	doc 8	d10
fools	1	1	0.3979	0.3979	0.518	0.1685	0.16849	0.1864
fear	1	1	0.5229	0.5229	0.6807	0.2909	0.29089	0.3218
in	1	1	0.3979	0.3979	0.518	0.1685	0.16849	0.1864

sum 0.6279 0.62786 0.6945

query length 0.768189

similarity (q , doc7) 0.6279

similarity (q , doc8) 0.6279

similarity (q , doc10) 0.6945

returned docs d10 ,d7,d8



