## **IR ASSIGNMENT 2**

## **Question 1)**

```
In [1]: runfile('/home/kaushal/Desktop/IR A2 01.py', wdir='/home/kaushal/Desktop')
Enter query
"GOOd Day"
mazarin.txt
enchdup.hum
sick-kid.txt
brain.damage
aesop11.txt
hound-b.txt
startrek.txt
srex.txt
fantasy.txt
bruce-p.txt
fantasy.hum
superg1
aesopa10.txt
melissa.txt
horswolf.txt
outcast.dos
forgotte
fic5
13chil.txt
```

## **Question 2)**

#### **Jaccard Coefficient**

```
In [1]: runfile('/home/ka
kaushal/Desktop')
Jaccard Coefficient

Enter query
"The crab and the heron"
crabhern.txt
index.html
missing.txt
aesopa10.txt
aesop11.txt
```

#### **TF-IDF Schemes:**

Please enter query "The crab and the heron" Using Scheme 1 crabhern.txt aesop11.txt index.html fgoose.txt aesopa10.txt Using Scheme 2 crabhern.txt aesop11.txt timem.hac aesopa10.txt long1-3.txt Using Scheme 3 crabhern.txt aesopa10.txt long1-3.txt aesop11.txt missing.txt 

Using Scheme 4 crabhern.txt aesop11.txt timem.hac index.html aesopa10.txt

Using Scheme 5 crabhern.txt aesop11.txt aesopa10.txt long1-3.txt missing.txt

### **Cosine Similarity:**

Please enter query The crab and the heron Using Scheme 1 crabhern.txt index.html aesop11.txt missing.txt aesopa10.txt Using Scheme 2 crabhern.txt aesopa10.txt aesop11.txt timem.hac long1-3.txt Using Scheme 3 crabhern.txt aesopa10.txt aesop11.txt timem.hac long1-3.txt

Using Scheme 4 crabhern.txt aesop11.txt aesopa10.txt long1-3.txt index.html

Using Scheme 5 crabhern.txt aesop11.txt aesopa10.txt long1-3.txt missing.txt

# **Question 3)**

In [1]: runfile('/home/kaushal/Desktop/IR_A2_Q	14	3	46
Max DCG is 20.989750804831445	18	4	48
100 13 20.000100004001440		6	49
Possible order of query-url pair with MAX DCG	21	9	50
8	25	10	51
19	30	12	52
	33	13	55
20	39	15	57
22	54	16	58
23	56	17	60
26	61		64
35	67	24	65
37	73	27	66
38	75	28	68
41	76	29	70
53	83	31	71
59	84	32	72
62	85	34	74
63	86	36	78
69	89	40	79
77	93	42	80
91	97	43	81
101	100	44	82
5	102	45	87
7		46	88
, 11	1 2	47	90

```
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99
103
```

In [1]: runfile('/home/kaushal/Desktop/IR\_A2\_Q3\_c.py', wdir='/home/kaushal/Desktop')
Normalized DCG for first 50 docs is 0.3521042740324887
Normalized DCG for whole dataset is 0.5979226516897831
In [2]:

