**Task 3a**

**>> Proj2\_3a**

Please enter a directory: C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Set\_of\_Simulation\_Files\word

Please enter the value of r:4

**Semantic-->1**

~~~Score~~~~Simulation~~~

-0.2221 19.0000

-0.2222 16.0000

-0.2230 1.0000

-0.2236 10.0000

-0.2236 9.0000

-0.2236 8.0000

-0.2237 5.0000

-0.2237 6.0000

-0.2237 7.0000

-0.2237 4.0000

-0.2238 3.0000

-0.2238 2.0000

-0.2240 14.0000

-0.2240 11.0000

-0.2240 12.0000

-0.2240 13.0000

-0.2240 15.0000

-0.2240 17.0000

-0.2240 18.0000

-0.2240 20.0000

**Semantic-->2**

~~~Score~~~~Simulation~~~

0.7039 16.0000

0.4344 1.0000

0.1461 5.0000

0.1029 4.0000

0.0488 3.0000

0.0488 2.0000

-0.0458 8.0000

-0.0584 7.0000

-0.0617 9.0000

-0.0732 11.0000

-0.0749 10.0000

-0.0889 18.0000

-0.0889 20.0000

-0.0889 13.0000

-0.0889 15.0000

-0.0889 12.0000

-0.0889 17.0000

-0.0959 14.0000

-0.0992 6.0000

-0.4385 19.0000

**Semantic-->3**

~~~Score~~~~Simulation~~~

0.8625 19.0000

0.2835 16.0000

0.1872 1.0000

0.0199 5.0000

-0.0022 4.0000

-0.0313 3.0000

-0.0313 2.0000

-0.0550 14.0000

-0.0709 11.0000

-0.0809 20.0000

-0.0809 17.0000

-0.0809 13.0000

-0.0809 15.0000

-0.0809 12.0000

-0.0809 18.0000

-0.0951 6.0000

-0.1383 7.0000

-0.1384 8.0000

-0.1477 9.0000

-0.1479 10.0000

**Semantic-->4**

~~~Score~~~~Simulation~~~

0.3052 1.0000

0.2834 4.0000

0.2834 5.0000

0.2704 3.0000

0.2704 2.0000

0.0499 6.0000

0.0397 17.0000

0.0397 12.0000

0.0397 15.0000

0.0397 13.0000

0.0397 20.0000

0.0397 18.0000

0.0351 14.0000

0.0216 11.0000

-0.0823 19.0000

-0.2730 10.0000

-0.2991 7.0000

-0.3235 9.0000

-0.3452 8.0000

-0.4380 16.0000

**Task 3b**

**>> Task3B**

Input the folder for input data files: C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Set\_of\_Simulation\_Files\word

Input the value for r: 4

Importing word document counts from: C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Set\_of\_Simulation\_Files\word/input.txt

Running LDA Gibbs Sampler Version 1.0

Arguments:

Number of words W = 37

Number of docs D = 20

Number of topics T = 4

Number of iterations N = 500

Hyperparameter ALPHA = 12.5000

Hyperparameter BETA = 5.4054

Seed number = 3

Number of tokens = 42840

Determining random order update sequence

Iteration 0 of 500

Iteration 10 of 500

Iteration 20 of 500

Iteration 30 of 500

Iteration 40 of 500

Iteration 50 of 500

Iteration 60 of 500

Iteration 70 of 500

Iteration 80 of 500

Iteration 90 of 500

Iteration 100 of 500

Iteration 110 of 500

Iteration 120 of 500

Iteration 130 of 500

Iteration 140 of 500

Iteration 150 of 500

Iteration 160 of 500

Iteration 170 of 500

Iteration 180 of 500

Iteration 190 of 500

Iteration 200 of 500

Iteration 210 of 500

Iteration 220 of 500

Iteration 230 of 500

Iteration 240 of 500

Iteration 250 of 500

Iteration 260 of 500

Iteration 270 of 500

Iteration 280 of 500

Iteration 290 of 500

Iteration 300 of 500

Iteration 310 of 500

Iteration 320 of 500

Iteration 330 of 500

Iteration 340 of 500

Iteration 350 of 500

Iteration 360 of 500

Iteration 370 of 500

Iteration 380 of 500

Iteration 390 of 500

Iteration 400 of 500

Iteration 410 of 500

Iteration 420 of 500

Iteration 430 of 500

Iteration 440 of 500

Iteration 450 of 500

Iteration 460 of 500

Iteration 470 of 500

Iteration 480 of 500

Iteration 490 of 500

**Semantic-->1**

~~~Index~~~~Score~~~Index~~~Simulation

(1,1) 656

(2,1) 616

(3,1) 591

(4,1) 591

(5,1) 580

(6,1) 556

(7,1) 548

(8,1) 541

(9,1) 540

(10,1) 539

(11,1) 535

(12,1) 530

(13,1) 502

(14,1) 496

(15,1) 486

(16,1) 435

(17,1) 427

(18,1) 424

(19,1) 361

(20,1) 270

(1,2) 10

(2,2) 14

(3,2) 3

(4,2) 13

(5,2) 6

(6,2) 15

(7,2) 2

(8,2) 1

(9,2) 18

(10,2) 5

(11,2) 12

(12,2) 16

(13,2) 17

(14,2) 8

(15,2) 4

(16,2) 20

(17,2) 19

(18,2) 11

(19,2) 9

(20,2) 7

**Semantic-->2**

~~~Index~~~~Score~~~Index~~~Simulation

(1,1) 815

(2,1) 742

(3,1) 673

(4,1) 648

(5,1) 638

(6,1) 634

(7,1) 629

(8,1) 626

(9,1) 594

(10,1) 576

(11,1) 567

(12,1) 557

(13,1) 545

(14,1) 537

(15,1) 533

(16,1) 532

(17,1) 511

(18,1) 321

(19,1) 300

(20,1) 274

(1,2) 9

(2,2) 7

(3,2) 15

(4,2) 19

(5,2) 17

(6,2) 5

(7,2) 12

(8,2) 18

(9,2) 14

(10,2) 3

(11,2) 4

(12,2) 16

(13,2) 8

(14,2) 1

(15,2) 20

(16,2) 2

(17,2) 13

(18,2) 10

(19,2) 11

(20,2) 6

**Semantic-->3**

~~~Index~~~~Score~~~Index~~~Simulation

(1,1) 714

(2,1) 646

(3,1) 619

(4,1) 612

(5,1) 600

(6,1) 582

(7,1) 578

(8,1) 567

(9,1) 562

(10,1) 541

(11,1) 450

(12,1) 440

(13,1) 434

(14,1) 418

(15,1) 414

(16,1) 393

(17,1) 392

(18,1) 382

(19,1) 377

(20,1) 250

(1,2) 8

(2,2) 4

(3,2) 18

(4,2) 11

(5,2) 1

(6,2) 20

(7,2) 7

(8,2) 9

(9,2) 6

(10,2) 14

(11,2) 2

(12,2) 19

(13,2) 10

(14,2) 17

(15,2) 16

(16,2) 12

(17,2) 3

(18,2) 13

(19,2) 15

(20,2) 5

**Semantic-->4**

~~~Index~~~~Score~~~Index~~~Simulation

(1,1) 806

(2,1) 731

(3,1) 726

(4,1) 719

(5,1) 658

(6,1) 641

(7,1) 627

(8,1) 612

(9,1) 592

(10,1) 585

(11,1) 584

(12,1) 583

(13,1) 552

(14,1) 536

(15,1) 464

(16,1) 443

(17,1) 399

(18,1) 391

(19,1) 387

(20,1) 357

(1,2) 11

(2,2) 10

(3,2) 6

(4,2) 5

(5,2) 13

(6,2) 16

(7,2) 19

(8,2) 2

(9,2) 20

(10,2) 12

(11,2) 17

(12,2) 3

(13,2) 7

(14,2) 15

(15,2) 1

(16,2) 4

(17,2) 9

(18,2) 14

(19,2) 8

(20,2) 18

**Task 3c**

>> Proj2\_3c  
Please enter the directory for epidemic simulation files:C:\Users\pdadi\Desktop\TestExecution\Input  
Please enter a value for number of latent semantics (r) :4  
Select the similarity measure  
Enter a - Ecludean Distance  
Enter b - Dynamic Time Wrapping Distance  
Enter c - Word File Similarity without A Function  
Enter d - Average File Similarity without A Function  
Enter e - Difference File Similarity without A Function  
Enter f - Word File Similarity with A Function  
Enter g - Average File Similarity with A Function  
Enter h - Difference File Similarity with A Function  
**Enter the choice of your similarity : a**  
**Semantic-->1**  
   -0.0113    1.0000  
   -0.0469   10.0000  
   -0.0844   11.0000  
   -0.1184   12.0000  
   -0.1514   13.0000  
   -0.1833   14.0000  
   -0.2135   15.0000  
   -0.2422   16.0000  
   -0.2599   18.0000  
   -0.2599    7.0000  
   -0.2599    5.0000  
   -0.2599    8.0000  
   -0.2599    6.0000  
   -0.2599    9.0000  
   -0.2600    2.0000  
   -0.2600    3.0000  
   -0.2600    4.0000  
   -0.2601   19.0000  
   -0.2601   20.0000  
   -0.2689   17.0000  
 **Semantic-->2**    0.3880   12.0000  
    0.3867   13.0000  
    0.3579   11.0000  
    0.3541   14.0000  
    0.3005   10.0000  
    0.2933   15.0000  
    0.2160    1.0000  
    0.2062   16.0000  
    0.1020   17.0000  
   -0.1236   18.0000  
   -0.1239   20.0000  
   -0.1244   19.0000  
   -0.1245    7.0000  
   -0.1245    5.0000  
   -0.1245    8.0000  
   -0.1246    6.0000  
   -0.1247    9.0000  
   -0.1250    3.0000  
   -0.1250    2.0000  
   -0.1251    4.0000  
  
**Semantic-->3**  
    0.4893   11.0000  
    0.3880   10.0000  
    0.3132   12.0000  
    0.0583   17.0000  
    0.0532    4.0000  
    0.0526    3.0000  
    0.0525    2.0000  
    0.0512   19.0000  
    0.0503    9.0000  
    0.0491    6.0000  
    0.0490   20.0000  
    0.0488    8.0000  
    0.0488    5.0000  
    0.0486    7.0000  
    0.0452   18.0000  
    0.0397    1.0000  
   -0.0472   13.0000  
   -0.3075   16.0000  
   -0.3801   14.0000  
   -0.4881   15.0000  
  
**Semantic-->4**  
    0.4340   13.0000  
    0.3259   12.0000  
    0.2552   14.0000  
    0.0396   20.0000  
    0.0360   19.0000  
    0.0354    4.0000  
    0.0348    3.0000  
    0.0347    2.0000  
    0.0325    9.0000  
    0.0314    6.0000  
    0.0311    8.0000  
    0.0311    5.0000  
    0.0309    7.0000  
    0.0297   18.0000  
    0.0022   11.0000  
   -0.0900   15.0000  
   -0.3226   10.0000  
   -0.3871   16.0000  
   -0.4229   17.0000  
   -0.4325    1.0000

>> Proj2\_3c  
Please enter the directory for epidemic simulation files:C:\Users\pdadi\Desktop\TestExecution\Input  
Please enter a value for number of latent semantics (r) :4  
Select the similarity measure  
Enter a - Ecludean Distance  
Enter b - Dynamic Time Wrapping Distance  
Enter c - Word File Similarity without A Function  
Enter d - Average File Similarity without A Function  
Enter e - Difference File Similarity without A Function  
Enter f - Word File Similarity with A Function  
Enter g - Average File Similarity with A Function  
Enter h - Difference File Similarity with A Function  
**Enter the choice of your similarity : c**  
**Semantic-->1**   -0.1724   15.0000  
   -0.1724    6.0000  
   -0.1803   14.0000  
   -0.1879   13.0000  
   -0.1901    7.0000  
   -0.1911   18.0000  
   -0.1921   20.0000  
   -0.1952   12.0000  
   -0.1981   17.0000  
   -0.2001    9.0000  
   -0.2022   11.0000  
   -0.2138   10.0000  
   -0.2212    8.0000  
   -0.2272    5.0000  
   -0.2350    2.0000  
   -0.2443    4.0000  
   -0.2528    3.0000  
   -0.2628   19.0000  
   -0.3176   16.0000  
   -0.3317    1.0000  
 **Semantic-->2**  
    0.3958    5.0000  
    0.2991   11.0000  
    0.2638   12.0000  
    0.2196   13.0000  
    0.1678   14.0000  
    0.1406   17.0000  
    0.1108   18.0000  
    0.1102    6.0000  
    0.1102   15.0000  
    0.1026    7.0000  
    0.0917    9.0000  
    0.0870    8.0000  
    0.0718   20.0000  
   -0.0115   10.0000  
   -0.0807    4.0000  
   -0.0964    3.0000  
   -0.1382    2.0000  
   -0.1653   19.0000  
   -0.4122   16.0000  
   -0.5364    1.0000  
  
**Semantic-->3**  
    0.8156    5.0000  
    0.2599    8.0000  
    0.0982   16.0000  
    0.0946    1.0000  
   -0.0052    9.0000  
   -0.0113   19.0000  
   -0.0123   10.0000  
   -0.0229    3.0000  
   -0.0463    2.0000  
   -0.0528    4.0000  
   -0.0612    6.0000  
   -0.0612   15.0000  
   -0.0677    7.0000  
   -0.1108   20.0000  
   -0.1272   14.0000  
   -0.1325   18.0000  
   -0.1593   17.0000  
   -0.1856   13.0000  
   -0.2329   12.0000  
   -0.2661   11.0000  
  
**Semantic-->4**    0.7327    1.0000  
    0.1395   10.0000  
    0.1192   11.0000  
    0.1113   12.0000  
    0.0952   13.0000  
    0.0721   14.0000  
    0.0718    5.0000  
    0.0557    7.0000  
    0.0437   15.0000  
    0.0437    6.0000  
    0.0109    9.0000  
   -0.0338   20.0000  
   -0.0716   18.0000  
   -0.0782   17.0000  
   -0.1049    3.0000  
   -0.1370    8.0000  
   -0.1818    4.0000  
   -0.2023    2.0000  
   -0.2240   19.0000  
   -0.4737   16.0000  
  
Elapsed time is 86.581727 seconds.

>> Proj2\_3c  
Please enter the directory for epidemic simulation files:C:\Users\pdadi\Desktop\TestExecution\Input  
Please enter a value for number of latent semantics (r) :4  
Select the similarity measure  
Enter a - Ecludean Distance  
Enter b - Dynamic Time Wrapping Distance  
Enter c - Word File Similarity without A Function  
Enter d - Average File Similarity without A Function  
Enter e - Difference File Similarity without A Function  
Enter f - Word File Similarity with A Function  
Enter g - Average File Similarity with A Function  
Enter h - Difference File Similarity with A Function  
**Enter the choice of your similarity : d**  
**Semantic-->1**   -0.1391    6.0000  
   -0.1456   15.0000  
   -0.1566   14.0000  
   -0.1592   20.0000  
   -0.1623    7.0000  
   -0.1634   18.0000  
   -0.1642   13.0000  
   -0.1738   12.0000  
   -0.1740   17.0000  
   -0.1746   11.0000  
   -0.1762    9.0000  
   -0.1994    8.0000  
   -0.2163    5.0000  
   -0.2296   10.0000  
   -0.2391    2.0000  
   -0.2448   19.0000  
   -0.2492    4.0000  
   -0.2675    3.0000  
   -0.3786   16.0000  
   -0.4174    1.0000  
  
**Semantic-->2**    0.7598    5.0000  
    0.2008    8.0000  
    0.0965   18.0000  
    0.0958    9.0000  
    0.0743   17.0000  
    0.0693   20.0000  
    0.0663    6.0000  
    0.0575    7.0000  
    0.0541    4.0000  
    0.0325    3.0000  
    0.0303   19.0000  
    0.0040   11.0000  
    0.0033   12.0000  
   -0.0000   13.0000  
   -0.0026   14.0000  
   -0.0058   15.0000  
   -0.0185    2.0000  
   -0.0374   10.0000  
   -0.1672   16.0000  
   -0.5578    1.0000  
  
**Semantic-->3**    0.4238   12.0000  
    0.3961   11.0000  
    0.3186   13.0000  
    0.2213   14.0000  
    0.1942    1.0000  
    0.1808   10.0000  
    0.0721   15.0000  
    0.0608    5.0000  
    0.0353    7.0000  
    0.0275   17.0000  
    0.0254    6.0000  
    0.0135   20.0000  
    0.0029   18.0000  
   -0.0002    9.0000  
   -0.0980    8.0000  
   -0.1187    3.0000  
   -0.1564    4.0000  
   -0.1615   19.0000  
   -0.2209    2.0000  
   -0.5548   16.0000  
  
**Semantic-->4**    0.2503   17.0000  
    0.2489   12.0000  
    0.2247   11.0000  
    0.1908   13.0000  
    0.1550   16.0000  
    0.1403   18.0000  
    0.1342   14.0000  
    0.0945    9.0000  
    0.0861    4.0000  
    0.0855   19.0000  
    0.0729   20.0000  
    0.0695    7.0000  
    0.0689    2.0000  
    0.0546    3.0000  
    0.0443   15.0000  
    0.0315    6.0000  
    0.0213    8.0000  
   -0.0381   10.0000  
   -0.5225    5.0000  
   -0.6382    1.0000

>> Proj2\_3c  
Please enter the directory for epidemic simulation files:C:\Users\pdadi\Desktop\TestExecution\Input  
Please enter a value for number of latent semantics (r) :4  
Select the similarity measure  
Enter a - Ecludean Distance  
Enter b - Dynamic Time Wrapping Distance  
Enter c - Word File Similarity without A Function  
Enter d - Average File Similarity without A Function  
Enter e - Difference File Similarity without A Function  
Enter f - Word File Similarity with A Function  
Enter g - Average File Similarity with A Function  
Enter h - Difference File Similarity with A Function  
**Enter the choice of your similarity : e**  
**Semantic-->1**  
   -0.1391    6.0000  
   -0.1456   15.0000  
   -0.1566   14.0000  
   -0.1592   20.0000  
   -0.1623    7.0000  
   -0.1634   18.0000  
   -0.1642   13.0000  
   -0.1738   12.0000  
   -0.1740   17.0000  
   -0.1746   11.0000  
   -0.1762    9.0000  
   -0.1994    8.0000  
   -0.2163    5.0000  
   -0.2296   10.0000  
   -0.2391    2.0000  
   -0.2448   19.0000  
   -0.2492    4.0000  
   -0.2675    3.0000  
   -0.3786   16.0000  
   -0.4174    1.0000  
  
**Semantic-->2**  
    0.7598    5.0000  
    0.2008    8.0000  
    0.0965   18.0000  
    0.0958    9.0000  
    0.0743   17.0000  
    0.0693   20.0000  
    0.0663    6.0000  
    0.0575    7.0000  
    0.0541    4.0000  
    0.0325    3.0000  
    0.0303   19.0000  
    0.0040   11.0000  
    0.0033   12.0000  
   -0.0000   13.0000  
   -0.0026   14.0000  
   -0.0058   15.0000  
   -0.0185    2.0000  
   -0.0374   10.0000  
   -0.1672   16.0000  
   -0.5578    1.0000  
  
**Semantic-->3**  
    0.4238   12.0000  
    0.3961   11.0000  
    0.3186   13.0000  
    0.2213   14.0000  
    0.1942    1.0000  
    0.1808   10.0000  
    0.0721   15.0000  
    0.0608    5.0000  
    0.0353    7.0000  
    0.0275   17.0000  
    0.0254    6.0000  
    0.0135   20.0000  
    0.0029   18.0000  
   -0.0002    9.0000  
   -0.0980    8.0000  
   -0.1187    3.0000  
   -0.1564    4.0000  
   -0.1615   19.0000  
   -0.2209    2.0000  
   -0.5548   16.0000  
  
**Semantic-->4**  
    0.2503   17.0000  
    0.2489   12.0000  
    0.2247   11.0000  
    0.1908   13.0000  
    0.1550   16.0000  
    0.1403   18.0000  
    0.1342   14.0000  
    0.0945    9.0000  
    0.0861    4.0000  
    0.0855   19.0000  
    0.0729   20.0000  
    0.0695    7.0000  
    0.0689    2.0000  
    0.0546    3.0000  
    0.0443   15.0000  
    0.0315    6.0000  
    0.0213    8.0000  
   -0.0381   10.0000  
   -0.5225    5.0000  
   -0.6382    1.0000

**Task 3d**

>> Proj2\_3d

Please enter a directory: C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Set\_of\_Simulation\_Files\word

Please enter the value of r:4

Please enter a directory for query file: C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Query\_Simulation\_File\word

Please enter the value of k(number of nearest neighbors):3

Semantic-->1

~~~Score~~~~Simulation~~~

0.2221 19.0000

0.2222 16.0000

0.2230 1.0000

Semantic-->2

~~~Score~~~~Simulation~~~

1.0000 1.0000

1.0000 4.0000

1.0000 2.0000

Semantic-->3

~~~Score~~~~Simulation~~~

0.0458 8.0000

0.0488 3.0000

0.0488 2.0000

Semantic-->4

~~~Score~~~~Simulation~~~

0.0022 4.0000

0.0199 5.0000

0.0313 2.0000

**Task 3e**

>> Proj2\_3e

Input the folder for input data files: C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Set\_of\_Simulation\_Files\word

Input the value for r: 4

Please enter a directory for query file: C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Query\_Simulation\_File\word

Please enter the value of k(number of nearest neighbors):3

C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Query\_Simulation\_File\word\\*.csv

C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Query\_Simulation\_File\word\query-word.csv

query-word.csv

Importing word document counts from: C:\Users\sgaripal\Downloads\SampleData\_P2\_Sampath\Set\_of\_Simulation\_Files\word/input1.txt

Number of Documents D = 21

Number of Words W = 51

Number of nonzero entries in matrix NNZ=103

Running LDA Gibbs Sampler Version 1.0

Arguments:

Number of words W = 51

Number of docs D = 21

Number of topics T = 4

Number of iterations N = 500

Hyperparameter ALPHA = 12.5000

Hyperparameter BETA = 3.9216

Seed number = 3

Number of tokens = 44982

Internal Memory Allocation

w,d,z,order indices combined = 719712 bytes

wp (full) matrix = 816 bytes

dp (full) matrix = 336 bytes

Starting Random initialization

Determining random order update sequence

Iteration 0 of 500

……

Iteration 490 of 500

**Semantic--->1**

~~~Index~~~~Score~~~Index~~~Simulation

(1,1) 284

(2,1) 346

(3,1) 349

(1,2) 15

(2,2) 8

(3,2) 17

**Semantic--->2**

~~~Index~~~~Score~~~Index~~~Simulation

(1,1) 503

(2,1) 531

(3,1) 578

(1,2) 3

(2,2) 7

(3,2) 20

**Semantic--->3**

~~~Index~~~~Score~~~Index~~~Simulation

(1,1) 2141

(2,1) 2141

(3,1) 2141

(1,2) 4

(2,2) 16

(3,2) 19

**Semantic--->4**

~~~Index~~~~Score~~~Index~~~Simulation

(1,1) 331

(2,1) 347

(3,1) 441

(1,2) 18

(2,2) 2

(3,2) 1

**Task 3f**

>> Proj2\_3f

Please enter the directory for epidemic simulation files:C:\Users\pdadi\Desktop\TestExecution\Input

Please enter a value for number of latent semantics (r) :4

Please enter a directory for query file: C:\Users\pdadi\Desktop\TestExecution\Query\_Simulation\_File\difference\

Please enter the value of k(number of nearest neighbors):2

Select the similarity measure

Enter a - Ecludean Distance

Enter b - Dynamic Time Wrapping Distance

Enter c - Word File Similarity without A Function

Enter d - Average File Similarity without A Function

Enter e - Difference File Similarity without A Function

Enter f - Word File Similarity with A Function

Enter g - Average File Similarity with A Function

Enter h - Difference File Similarity with A Function

**Enter the choice of your similarity : e**

**Semantic-->1**

~~~Simulation~~~~Score~~~

   11.0000   -0.1702

   17.0000   -0.1699

**Semantic-->2**

~~~Simulation~~~~Score~~~

    9.0000    0.1076

   18.0000    0.0862

**Semantic-->3**

~~~Simulation~~~~Score~~~

    9.0000   -0.0045

    8.0000   -0.0846

**Semantic-->4**

~~~Simulation~~~~Score~~~

   10.0000   -0.0295

    8.0000    0.0127

Elapsed time is 88.144626 seconds.

>> Proj2\_3f

Please enter the directory for epidemic simulation files:C:\Users\pdadi\Desktop\TestExecution\Input

Please enter a value for number of latent semantics (r) :4

Please enter a directory for query file: C:\Users\pdadi\Desktop\TestExecution\Query\_Simulation\_File\average\

Please enter the value of k(number of nearest neighbors):2

Select the similarity measure

Enter a - Ecludean Distance

Enter b - Dynamic Time Wrapping Distance

Enter c - Word File Similarity without A Function

Enter d - Average File Similarity without A Function

Enter e - Difference File Similarity without A Function

Enter f - Word File Similarity with A Function

Enter g - Average File Similarity with A Function

Enter h - Difference File Similarity with A Function

**Enter the choice of your similarity : d**

**Semantic-->1**

~~~Simulation~~~~Score~~~

   11.0000   -0.1702

   17.0000   -0.1699

**Semantic-->2**

~~~Simulation~~~~Score~~~

    9.0000    0.1076

   18.0000    0.0862

**Semantic-->3**

~~~Simulation~~~~Score~~~

    9.0000   -0.0045

    8.0000   -0.0846

**Semantic-->4**

~~~Simulation~~~~Score~~~

   10.0000   -0.0295

    8.0000    0.0127

Elapsed time is 93.028537 seconds.

>> Proj2\_3f

Please enter the directory for epidemic simulation files:C:\Users\pdadi\Desktop\TestExecution\Input

Please enter a value for number of latent semantics (r) :4

Please enter a directory for query file: C:\Users\pdadi\Desktop\TestExecution\Query\_Simulation\_File\word\

Please enter the value of k(number of nearest neighbors):2

Select the similarity measure

Enter a - Ecludean Distance

Enter b - Dynamic Time Wrapping Distance

Enter c - Word File Similarity without A Function

Enter d - Average File Similarity without A Function

Enter e - Difference File Similarity without A Function

Enter f - Word File Similarity with A Function

Enter g - Average File Similarity with A Function

Enter h - Difference File Similarity with A Function

**Enter the choice of your similarity : c**

**Semantic-->1**

~~~Simulation~~~~Score~~~

   11.0000   -0.1951

   17.0000   -0.1912

**Semantic-->2**

~~~Simulation~~~~Score~~~

    8.0000    0.0934

    9.0000    0.0866

**Semantic-->3**

~~~Simulation~~~~Score~~~

   16.0000    0.1196

    8.0000    0.2445

**Semantic-->4**

~~~Simulation~~~~Score~~~

   15.0000    0.0431

    6.0000    0.0143

Elapsed time is 92.559273 seconds.

>> Proj2\_3f

Please enter the directory for epidemic simulation files:C:\Users\pdadi\Desktop\TestExecution\Input

Please enter a value for number of latent semantics (r) :4

Please enter a directory for query file: C:\Users\pdadi\Desktop\TestExecution\Query\_Simulation\_File\

Please enter the value of k(number of nearest neighbors):2

Select the similarity measure

Enter a - Ecludean Distance

Enter b - Dynamic Time Wrapping Distance

Enter c - Word File Similarity without A Function

Enter d - Average File Similarity without A Function

Enter e - Difference File Similarity without A Function

Enter f - Word File Similarity with A Function

Enter g - Average File Similarity with A Function

Enter h - Difference File Similarity with A Function

Enter the choice of your similarity : a

Semantic-->1

~~~Simulation~~~~Score~~~

   18.0000   -0.2519

    7.0000   -0.2519

Semantic-->2

~~~Simulation~~~~Score~~~

   19.0000   -0.1149

    7.0000   -0.1150

Semantic-->3

~~~Simulation~~~~Score~~~

   18.0000    0.0419

    7.0000    0.0451

Semantic-->4

~~~Simulation~~~~Score~~~

   18.0000    0.0274

    7.0000    0.0285

Elapsed time is 5.030069 seconds.