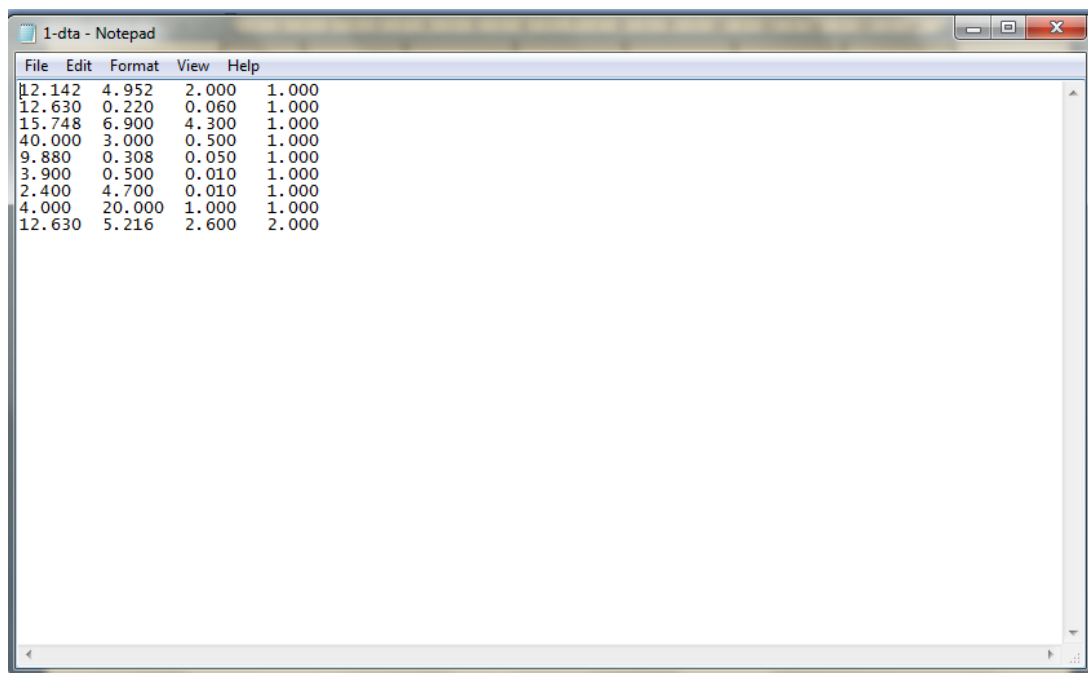


ภาคผนวก จ

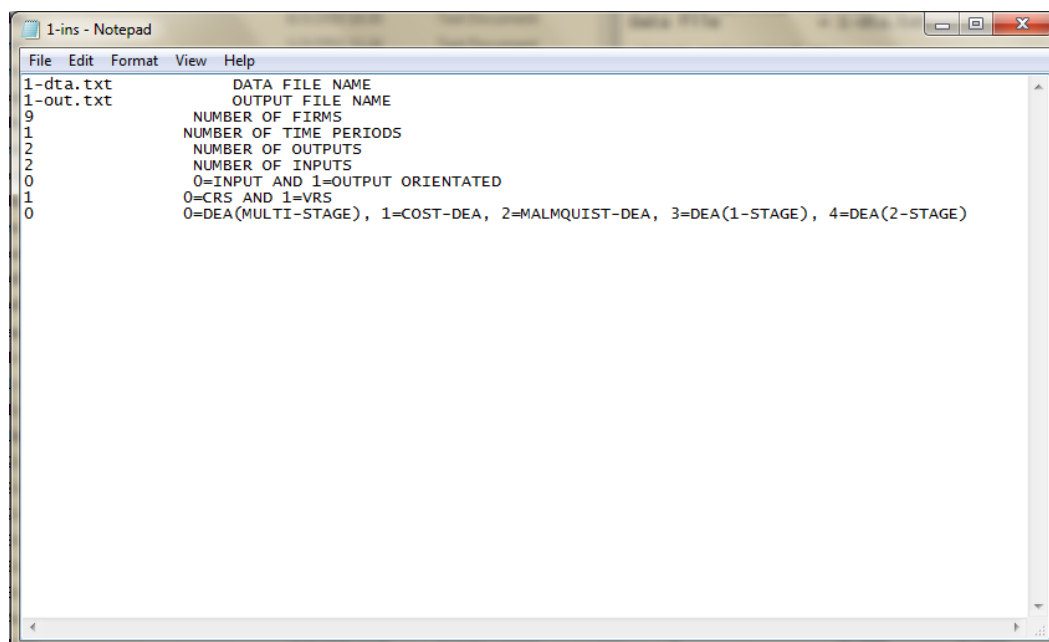
การใช้โปรแกรม DEAP 2.1



File	Edit	Format	View	Help
12.142	4.952	2.000	1.000	
12.630	0.220	0.060	1.000	
15.748	6.900	4.300	1.000	
40.000	3.000	0.500	1.000	
9.880	0.308	0.050	1.000	
3.900	0.500	0.010	1.000	
2.400	4.700	0.010	1.000	
4.000	20.000	1.000	1.000	
12.630	5.216	2.600	2.000	

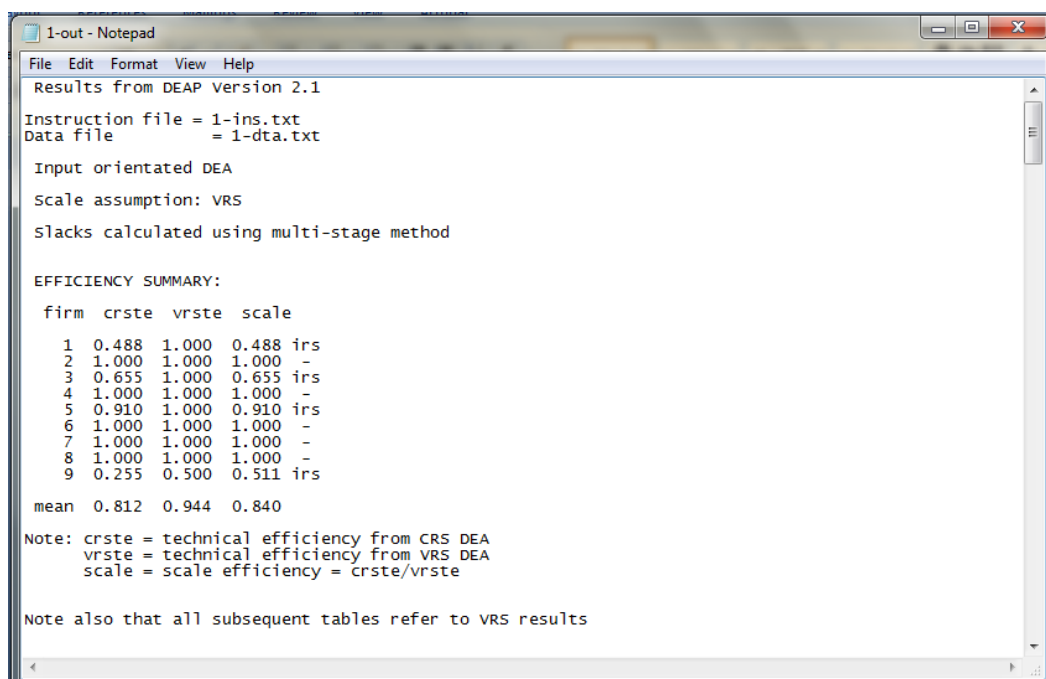
ภาพที่ จ-1

การป้อนข้อมูล โปรแกรม DEAP 2.1



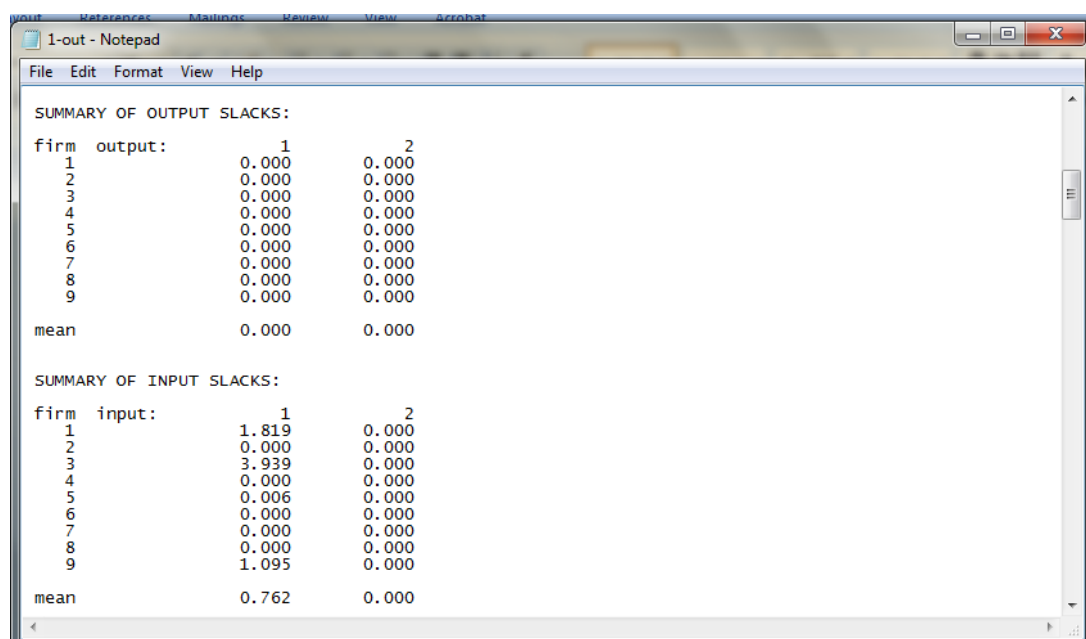
ภาพที่ จ-2

การใช้คำสั่งสำหรับโปรแกรม DEAP 2.1



ภาพที่ จ-3

ผลจากโปรแกรม DEAP 2.1



1-out - Notepad

File Edit Format View Help

SUMMARY OF OUTPUT SLACKS:

firm	output:	1	2
1		0.000	0.000
2		0.000	0.000
3		0.000	0.000
4		0.000	0.000
5		0.000	0.000
6		0.000	0.000
7		0.000	0.000
8		0.000	0.000
9		0.000	0.000
mean		0.000	0.000

SUMMARY OF INPUT SLACKS:

firm	input:	1	2
1		1.819	0.000
2		0.000	0.000
3		3.939	0.000
4		0.000	0.000
5		0.006	0.000
6		0.000	0.000
7		0.000	0.000
8		0.000	0.000
9		1.095	0.000
mean		0.762	0.000

ภาพที่ จ-4
ผลจากโปรแกรม DEAP 2.1

```

SUMMARY OF PEERS:
firm  peers:
1      4      8      7
2      2
3      4      8      7
4      4
5      6      2
6      6
7      7
8      8
9      4      8      7

SUMMARY OF PEER WEIGHTS:
(in same order as above)
firm  peer weights:
1      0.257 0.045 0.698
2      1.000
3      0.347 0.182 0.470
4      1.000
5      0.315 0.685
6      1.000
7      1.000
8      1.000
9      0.269 0.064 0.667

PEER COUNT SUMMARY:
(i.e., no. times each firm is a peer for another)
firm  peer count:
1      0
2      1
3      0
4      3
5      0
6      1
7      3
8      3
9      0

```

ภาพที่ จ-5

ผลจากโปรแกรม DEAP 2.1

```

SUMMARY OF OUTPUT TARGETS:
firm  output:      1      2
1      12.142      4.952
2      12.630      0.220
3      15.748      6.900
4      40.000      3.000
5      9.880      0.308
6      3.900      0.500
7      2.400      4.700
8      4.000      20.000
9      12.630      5.216

SUMMARY OF INPUT TARGETS:
firm  input:      1      2
1      0.181      1.000
2      0.060      1.000
3      0.361      1.000
4      0.500      1.000
5      0.044      1.000
6      0.010      1.000
7      0.010      1.000
8      1.000      1.000
9      0.205      1.000

```

ภาพที่ จ-6

ผลจากโปรแกรม DEAP 2.1

```

1-out - Notepad
File Edit Format View Help

FIRM BY FIRM RESULTS:

Results for firm: 1
Technical efficiency = 1.000
Scale efficiency = 0.488 (irs)
PROJECTION SUMMARY:
variable      original      radial      slack      projected
              value      movement  movement  value
output 1      12.142      0.000      0.000      12.142
output 2       4.952      0.000      0.000      4.952
input 1        2.000      0.000     -1.819      0.181
input 2        1.000      0.000      0.000      1.000
LISTING OF PEERS:
peer  lambda weight
4      0.257
8      0.045
7      0.698

Results for firm: 2
Technical efficiency = 1.000
Scale efficiency = 1.000 (crs)
PROJECTION SUMMARY:
variable      original      radial      slack      projected
              value      movement  movement  value
output 1      12.630      0.000      0.000      12.630
output 2       0.220      0.000      0.000      0.220
input 1        0.060      0.000      0.000      0.060
input 2        1.000      0.000      0.000      1.000
LISTING OF PEERS:
peer  lambda weight
2      1.000

Results for firm: 3
Technical efficiency = 1.000
Scale efficiency = 0.655 (irs)
PROJECTION SUMMARY:
variable      original      radial      slack      projected
              value      movement  movement  value
output 1      15.748      0.000      0.000      15.748
output 2       6.900      0.000      0.000      6.900
input 1       4.300      0.000     -3.939      0.361
input 2        1.000      0.000      0.000      1.000
LISTING OF PEERS:
peer  lambda weight
4      0.347
8      0.182
7      0.470

```

ภาพที่ ๑-7
ผลจากโปรแกรม DEAP

1-out - Notepad

File Edit Format View Help

Results for firm: 4
 Technical efficiency = 1.000
 Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable	original value	radial movement	slack movement	projected value
output 1	40.000	0.000	0.000	40.000
output 2	3.000	0.000	0.000	3.000
input 1	0.500	0.000	0.000	0.500
input 2	1.000	0.000	0.000	1.000

LISTING OF PEERS:

peer	lambda weight
4	1.000

Results for firm: 5
 Technical efficiency = 1.000
 Scale efficiency = 0.910 (irs)

PROJECTION SUMMARY:

variable	original value	radial movement	slack movement	projected value
output 1	9.880	0.000	0.000	9.880
output 2	0.308	0.000	0.000	0.308
input 1	0.050	0.000	-0.006	0.044
input 2	1.000	0.000	0.000	1.000

LISTING OF PEERS:

peer	lambda weight
6	0.315
2	0.685

Results for firm: 6
 Technical efficiency = 1.000
 Scale efficiency = 1.000 (crs)

PROJECTION SUMMARY:

variable	original value	radial movement	slack movement	projected value
output 1	3.900	0.000	0.000	3.900
output 2	0.500	0.000	0.000	0.500
input 1	0.010	0.000	0.000	0.010
input 2	1.000	0.000	0.000	1.000

LISTING OF PEERS:

peer	lambda weight
6	1.000

ภาพที่ ๙-8
 ผลจากโปรแกรม DEAP

```

1-out - Notepad
File Edit Format View Help

Results for firm: 7
Technical efficiency = 1.000
Scale efficiency = 1.000 (crs)
PROJECTION SUMMARY:
variable      original      radial      slack      projected
              value      movement movement value
output 1      2.400      0.000      0.000      2.400
output 2      4.700      0.000      0.000      4.700
input 1       0.010      0.000      0.000      0.010
input 2       1.000      0.000      0.000      1.000
LISTING OF PEERS:
peer  lambda weight
7      1.000

Results for firm: 8
Technical efficiency = 1.000
Scale efficiency = 1.000 (crs)
PROJECTION SUMMARY:
variable      original      radial      slack      projected
              value      movement movement value
output 1      4.000      0.000      0.000      4.000
output 2     20.000      0.000      0.000     20.000
input 1       1.000      0.000      0.000      1.000
input 2       1.000      0.000      0.000      1.000
LISTING OF PEERS:
peer  lambda weight
8      1.000

Results for firm: 9
Technical efficiency = 0.500
Scale efficiency = 0.511 (irs)
PROJECTION SUMMARY:
variable      original      radial      slack      projected
              value      movement movement value
output 1     12.630      0.000      0.000     12.630
output 2      5.216      0.000      0.000      5.216
input 1       2.600     -1.300     -1.095      0.205
input 2       2.000     -1.000      0.000      1.000
LISTING OF PEERS:
peer  lambda weight
4      0.269
8      0.064
7      0.667

```

ภาพที่ ๑-๙
ผลจากโปรแกรม DEAP