```
2
                                          ARENA Simulation Results
3
                                            IE - License: STUDENT
4
5
                                      Summary for Replication 1 of 4
6
7
    Project: IE306HW4
                                                                        Run execution
    date :12/19/2022
8
    Analyst: Omercan Misirlioglu
                                                                        Model revision
    date:12/19/2022
9
    Replication ended at time : 480.0 Minutes (Monday, December 19, 2022, 00:50:12)
10
11
    Base Time Units: Minutes
12
13
                                               TALLY VARIABLES
14
15
                                                Average Half Width Minimum
    Identifier
    Maximum Observations
16
17
18
    Time Spent in Service Queue
                                               42.094
                                                          (Insuf) .00000
    79.491 188
19
                                         DISCRETE-CHANGE VARIABLES
20
21
    Identifier
                                                Average Half Width Minimum
    Maximum Final Value
23
24
    Utilization of food servers by eng.student .83634
                                                                     .00000
25
                                                          (Insuf)
    2.0000 1.0000
2.6
    Utilization of food servers by Soc.Sci.Stu 1.1042
                                                           (Insuf)
                                                                      .00000
    2.0000 1.0000
27
    Utilization of cashier by eng.students
                                                           (Insuf)
                                                                      .00000
                                              .46585
    1.0000 1.0000
    Utilization of cashier by Soc.Sci.Students .52500
                                                           (Insuf)
2.8
                                                                     .00000
    1.0000 .00000
29
    Average Length of Food Service Queue
                                              17.835
                                                           (Corr)
                                                                     .00000
    33.000
             26.000
    Average Length of Payment to Cashier Queue 28.848
30
                                                           (Corr)
                                                                     .00000
    72.000
               71.000
31
32
                                                 COUNTERS
33
34
    Identifier
                                                 Count Limit
35
36
37
    Number Of Engineering Students Who Forget
                                                    25 Infinite
                                                    20 Infinite
    Number Of Social Sciences Students Who For
38
39
40
                                                 OUTPUTS
41
42
    Identifier
                                                 Value
43
44
45
    System.NumberOut
                                                .00000
46
47
    Beginning replication 2 of 4
48
49
                                          ARENA Simulation Results
50
                                            IE - License: STUDENT
51
52
                                      Summary for Replication 2 of 4
53
    Project: IE306HW4
54
                                                                        Run execution
    date :12/19/2022
55
    Analyst: Omercan Misirlioglu
                                                                        Model revision
    date:12/19/2022
56
```

Replication ended at time : 480.0 Minutes (Monday, December 19, 2022, 00:50:12)

57

Base Time Units: Minutes

	TALLY VAR	IABLES	
Identifier Maximum Observations	Average	Half Width	Minimum
Time Spent in Service Queue 43.155 199	22.089	(Insuf)	.00000
DISCRE	ETE-CHANGE	VARIABLES	
Identifier Maximum Final Value	Average	Half Width	Minimum
Utilization of food servers by eng.student 2.0000 2.0000	.80415	(Insuf)	.00000
Utilization of food servers by Soc.Sci.Stu 2.0000 .00000	1.0875	(Insuf)	.00000
Utilization of cashier by eng.students 1.0000 .00000	.44167	(Insuf)	.00000
Utilization of cashier by Soc.Sci.Students	.55251	(Insuf)	.00000
Average Length of Food Service Queue 21.000 19.000	9.9163	(Corr)	.00000
Average Length of Payment to Cashier Queue 78.000 77.000	34.155	(Corr)	.00000
	COUNTER	S	
Identifier	Count	Limit	
Number Of Engineering Students Who Forget Number Of Social Sciences Students Who For			
	OUTPUTS		
Identifier	Value		
System.NumberOut	.00000		
Beginning replication 3 of 4			
	A Simulati - License	on Results : STUDENT	
Summary i	for Replic	ation 3 of 4	
Project: IE306HW4 date :12/19/2022			Run executio
Analyst: Omercan Misirlioglu			
Analyst: Omercan Misirlioglu date:12/19/2022			
	utes (Mond	ay, December	19, 2022, 00:50:
<pre>date:12/19/2022 Replication ended at time : 480.0 Minu</pre>	utes (Mond TALLY VAR		19, 2022, 00:50:
<pre>date:12/19/2022 Replication ended at time : 480.0 Minu</pre>		IABLES	
<pre>date:12/19/2022 Replication ended at time : 480.0 Minu Base Time Units: Minutes</pre> <pre>Identifier</pre>	TALLY VAR	IABLES Half Width	Minimum

Identifier Maximum Final Value	Average	Half Width	Minimum
Utilization of food servers by eng.student	.88371	(Insuf)	.00000
2.0000 1.0000 Utilization of food servers by Soc.Sci.Stu	.93318	(Insuf)	.00000
2.0000 1.0000 Utilization of cashier by eng.students	.46454	(Insuf)	.00000
1.0000 1.0000 Utilization of cashier by Soc.Sci.Students	.53125	(Insuf)	.00000
1.0000 .00000 Average Length of Food Service Queue 16.000 3.0000	4.7592	(Corr)	.00000
Average Length of Payment to Cashier Queue 81.000 81.000	38.013	(Corr)	.00000
	COUNTER	.S	
Identifier	Count	Limit	
Number Of Engineering Students Who Forget Number Of Social Sciences Students Who For			
Number of Social Sciences Seadenes who for	OUTPUTS		
Identifier	Value		
System.NumberOut	.00000		
Beginning replication 4 of 4			
		on Results	
		e: STUDENT cation 4 of 4	
-	or Kepiie	acion 4 or 4	Daniel and the second s
Project: IE306HW4 date:12/19/2022 Analyst: Omercan Misirlioglu date:12/19/2022			Run execution Model revisio
Replication ended at time : 480.0 Minu Base Time Units: Minutes	ites (Mond	lay, December	19, 2022, 00:50:1
	TALLY VAR	RIABLES	
Identifier Maximum Observations	Average	Half Width	Minimum
Time Spent in Service Queue 80.819 197	38.113	(Insuf)	.00000
80.819 197		(Insuf)	.00000
80.819 197	TE-CHANGE		
80.819 197 DISCRE	TE-CHANGE	VARIABLES	
80.819 197 DISCRE Identifier Maximum Final Value Utilization of food servers by eng.student	TE-CHANGE Average	VARIABLES Half Width	
80.819 197 DISCRE Identifier Maximum Final Value Utilization of food servers by eng.student 2.0000 Utilization of food servers by Soc.Sci.Stu	Average .76172	VARIABLES Half Width (Insuf)	Minimum
80.819 197 DISCRE Identifier Maximum Final Value ————— Utilization of food servers by eng.student 2.0000 1.0000	Average .76172 1.1014	VARIABLES Half Width (Insuf) (Insuf)	Minimum

38.000 29.000	17.659	(Corr)	.00000	
Average Length of Payment to Cashier 74.000 73.000	Queue 30.036	(Corr)	.00000	
	COUNTER	S		
Identifier	Count	Limit		
Number Of Engineering Students Who Fo Number Of Social Sciences Students Wh	=	Infinite Infinite		
	OUTPUTS			
Identifier	Value			
System.NumberOut	.00000			
	ARENA Simulati IE - License	: STUDENT		
Out		: STUDENT	ions	
Project: IE306HW4	IE - License	: STUDENT		execution
	IE - License	: STUDENT	Run e	
Project: IE306HW4 date :12/19/2022 Analyst: Omercan Misirlioglu	IE - License	: STUDENT 4 Replicat	Run e	
Project: IE306HW4 date :12/19/2022 Analyst: Omercan Misirlioglu	IE - License	: STUDENT 4 Replicat	Run e	execution revisio Maximu
Project: IE306HW4 date :12/19/2022 Analyst: Omercan Misirlioglu date:12/19/2022	IE - License put Summary for OUTPUTS	: STUDENT 4 Replicat	Run e	revisio

206 207