

Name :Keyur Patel

Roll No : 16010421073

Batch : A2

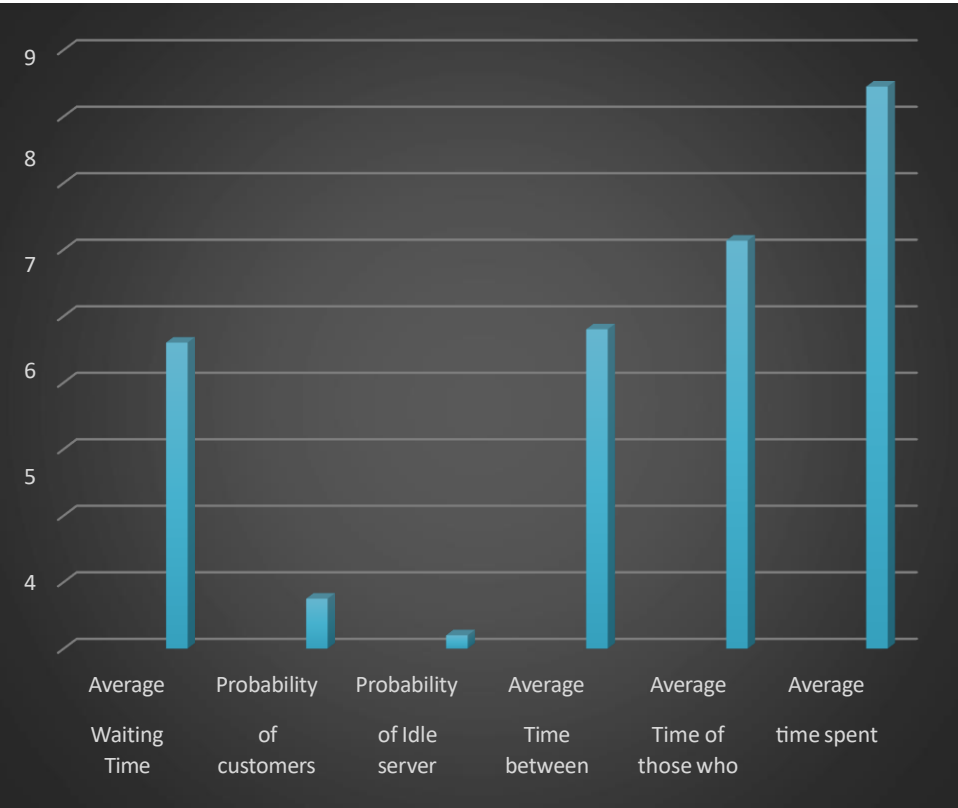
Exp no -3(Inlab)

Service time				
Service time	Probability	Cumulative Probability	Range(Min)	Range(Max)
1	0.05	0.05	0	5
2	0.1	0.15	6	15
3	0.2	0.35	16	35
4	0.3	0.65	36	65
5	0.25	0.9	66	90
6	0.1	1	91	100

Arrival Time				
Arrival Time	Probability	Cumulative Probability	Range(Min)	Range(Max)
1	0.1	0.1	0	100
2	0.1	0.2	101	200
3	0.1	0.3	201	300
4	0.1	0.4	301	400
5	0.1	0.5	401	500
6	0.1	0.6	501	600
7	0.1	0.7	601	700
8	0.1	0.8	701	800
9	0.1	0.9	801	900
10	0.1	1	901	0

Simulation										
Customer No	RD for ITA	Look Up Value	Arrival Time	D for Service Tim	Service Time	Time Service beginaiting Time in que	Time Service end ime	Spent in Syste	Ideal Time of Server	
1	0	0	0	2	0	0	0	0	0	
2	989	10	10	88	5	10	0	15	5	10
3	644	7	7	28	3	17	0	20	3	2
4	786	8	25	75	5	25	0	30	5	5
5	145	2	27	43	4	31	3	35	7	0
6	120	2	29	76	5	36	6	41	11	0
7	427	5	34	18	3	42	7	45	10	0
8	384	4	38	27	3	46	7	49	10	0
9	306	4	42	90	5	50	7	55	12	0
10	772	8	52	55	4	56	7	63	8	0

Performance Measures		
1	Average Waiting Time	4.6
2	Probability of customers waiting	0.75
3	Probability of Idle server	0.2
4	Average Time between arrival	4.8
5	Average Time of those who wait	6.133333333
6	Average time spent in system	8.45



Waiting Time in queue vs No. of customers

