

Name: Soham Bhoir

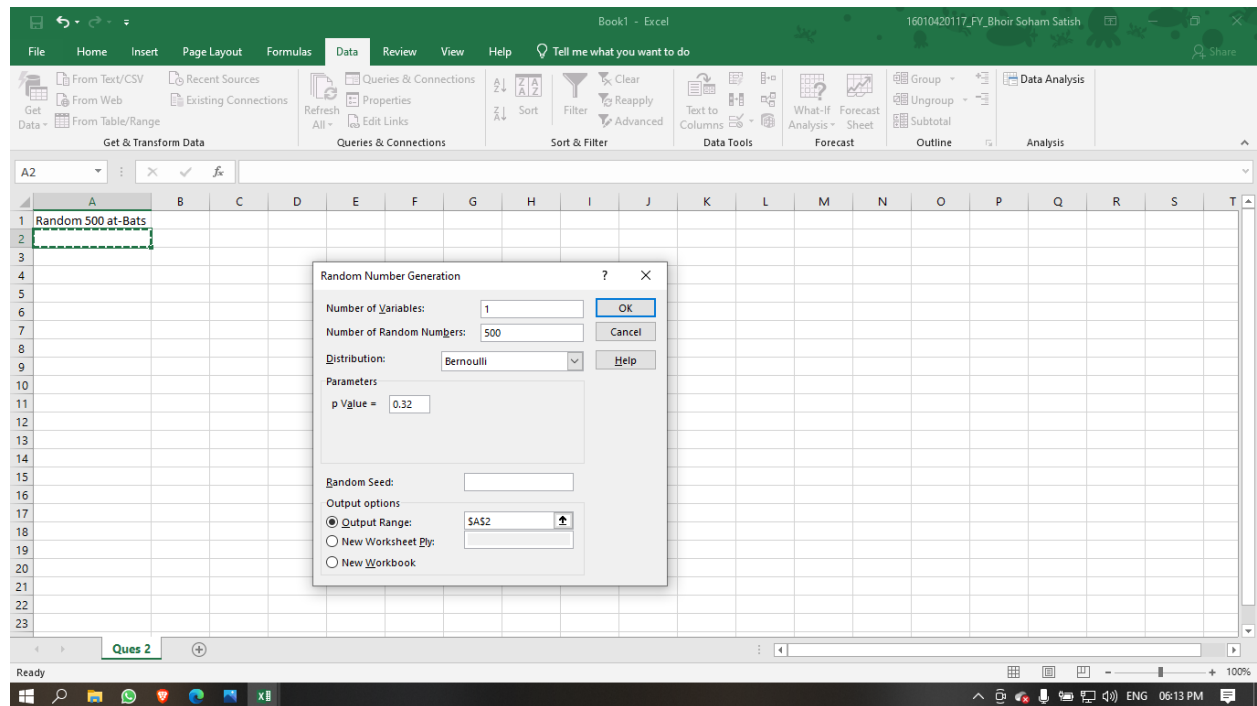
Batch: A4

Roll No.: 16010420117

Subject: Modeling and Simulation IA1

b) To simulate 500 at-bats for a baseball player with a 0.320 batting average. A result of 1 means a hit, 0 means an out.

Steps:



Book1 - Excel 16010420117_FY_Bhoir Soham Satish

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Get Data From Text/CSV Recent Sources From Web Existing Connections Refresh All Queries & Connections Properties Edit Links Sort Filter Clear Reapply Advanced Text to Columns What-If Analysis Forecast Sheet Group Ungroup Subtotal Data Analysis

Get & Transform Data Queries & Connections Sort & Filter Data Tools Forecast Outline Analysis

SUM X ✓ ✖ =COUNTIF(A2:A501,0)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Random 500 at-Bats																			
2	0																			
3	1		HIT	1	161															
4	0		Out	0	A501,0															
5	1			Total	500															
6	0																			
7	0																			
8	1																			
9	0																			
10	1																			
11	1																			
12	1																			
13	0																			
14	0																			
15	0																			
16	1																			
17	0																			
18	0																			
19	0																			
20	1																			
21	1																			
22	0																			
23	1																			

Ques 2

100%

Book1 - Excel 16010420117_FY_Bhoir Soham Satish

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Get Data From Text/CSV Recent Sources From Web Existing Connections Refresh All Queries & Connections Properties Edit Links Sort Filter Clear Reapply Advanced Text to Columns What-If Analysis Forecast Sheet Group Ungroup Subtotal Data Analysis

Get & Transform Data Queries & Connections Sort & Filter Data Tools Forecast Outline Analysis

D9 X ✓ ✖

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Random 500 at-Bats																			
2	0																			
3	1		HIT	1	161															
4	0		Out	0	339															
5	1			Total	500															
6	0																			
7	0																			
8	0																			
9	1																			
10	1																			
11	1																			
12	1																			
13	0																			
14	0																			
15	0																			
16	1																			
17	0																			
18	0																			
19	0																			
20	1																			
21	1																			
22	0																			
23	1																			

Ques 2

100%

Histogram

Input

Input Range: \$A\$2:\$A\$501

Bin Range: \$D\$3:\$D\$4

☐ Labels

Output options

☒ Output Range: \$D\$5

☐ New Worksheet Ply:

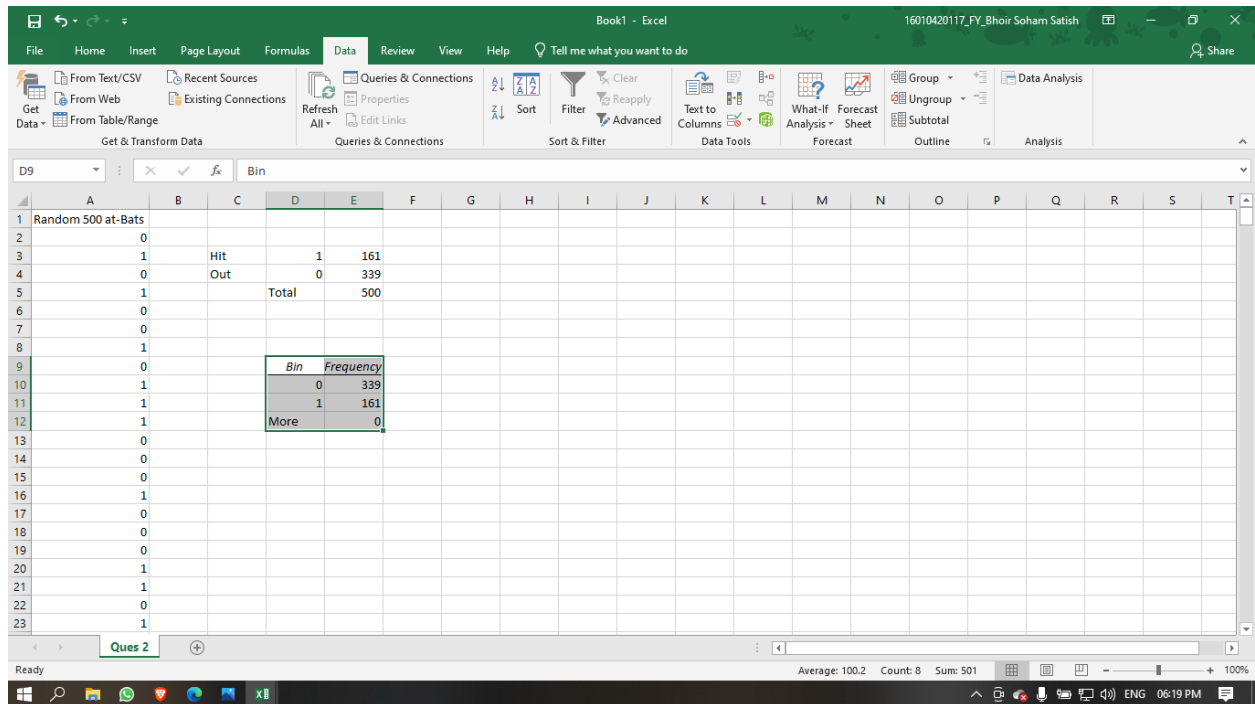
☐ New Workbook

☐ Pareto (sorted histogram)

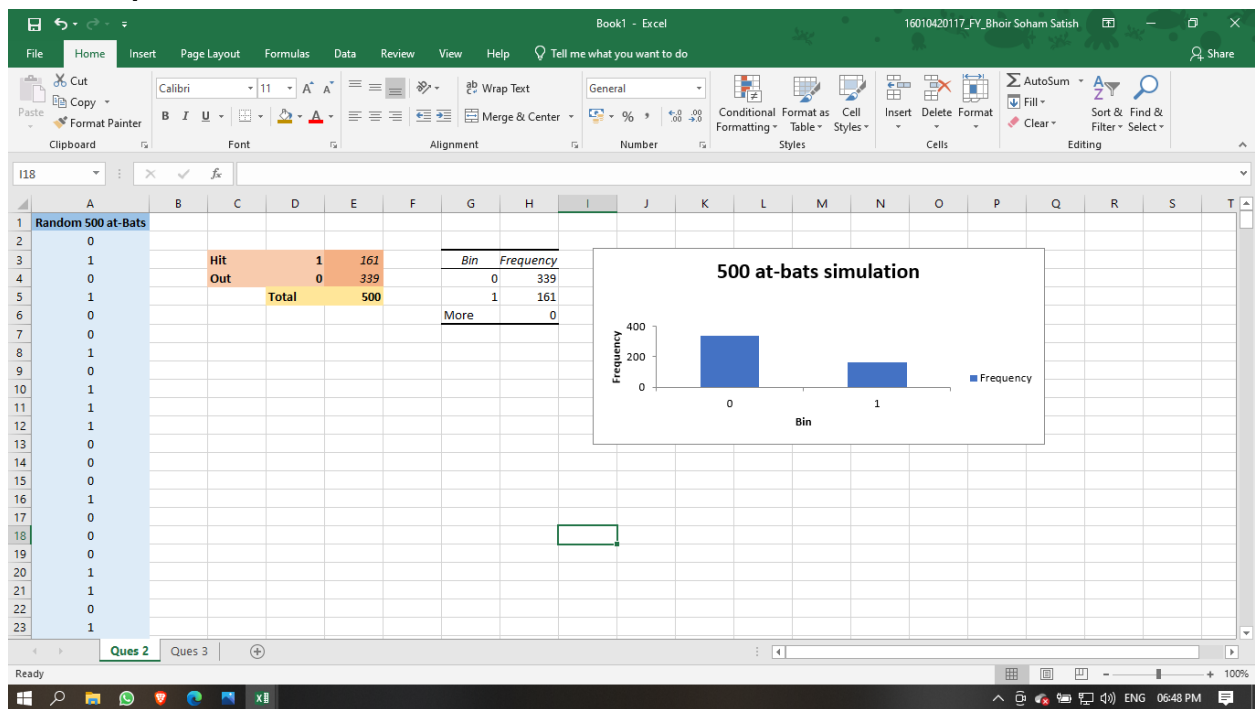
☐ Cumulative Percentage

☐ Chart Output

OK Cancel Help

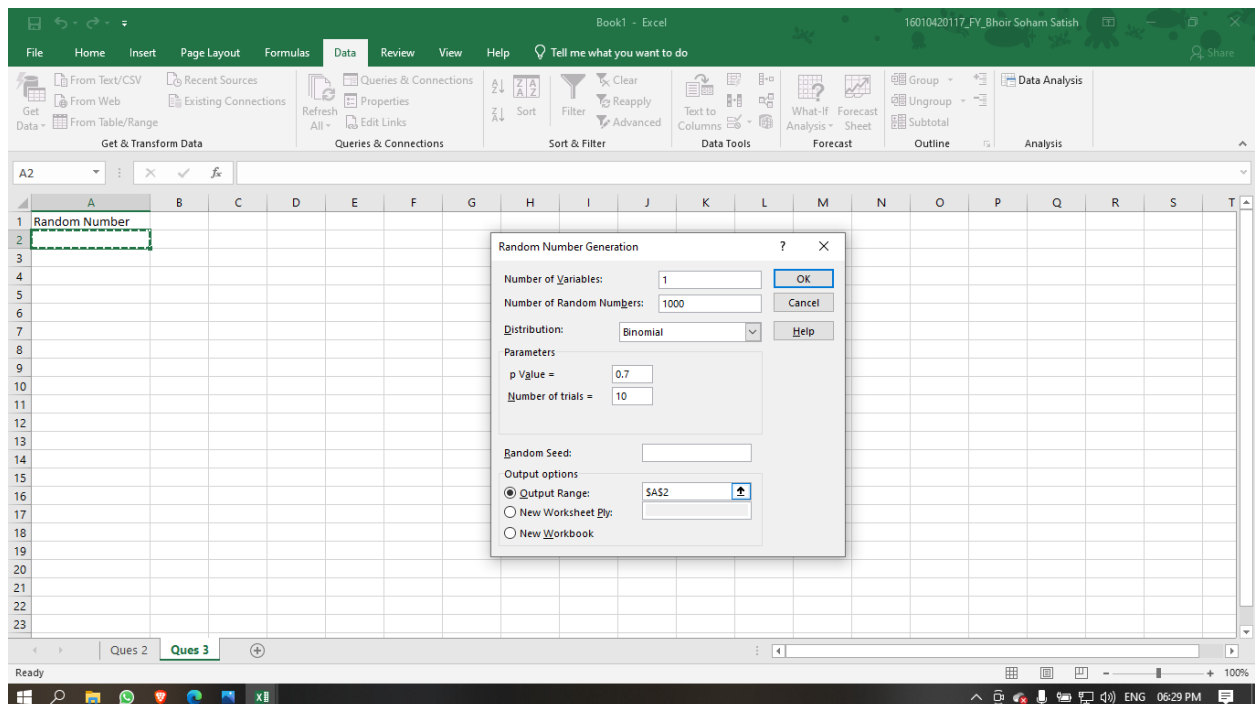
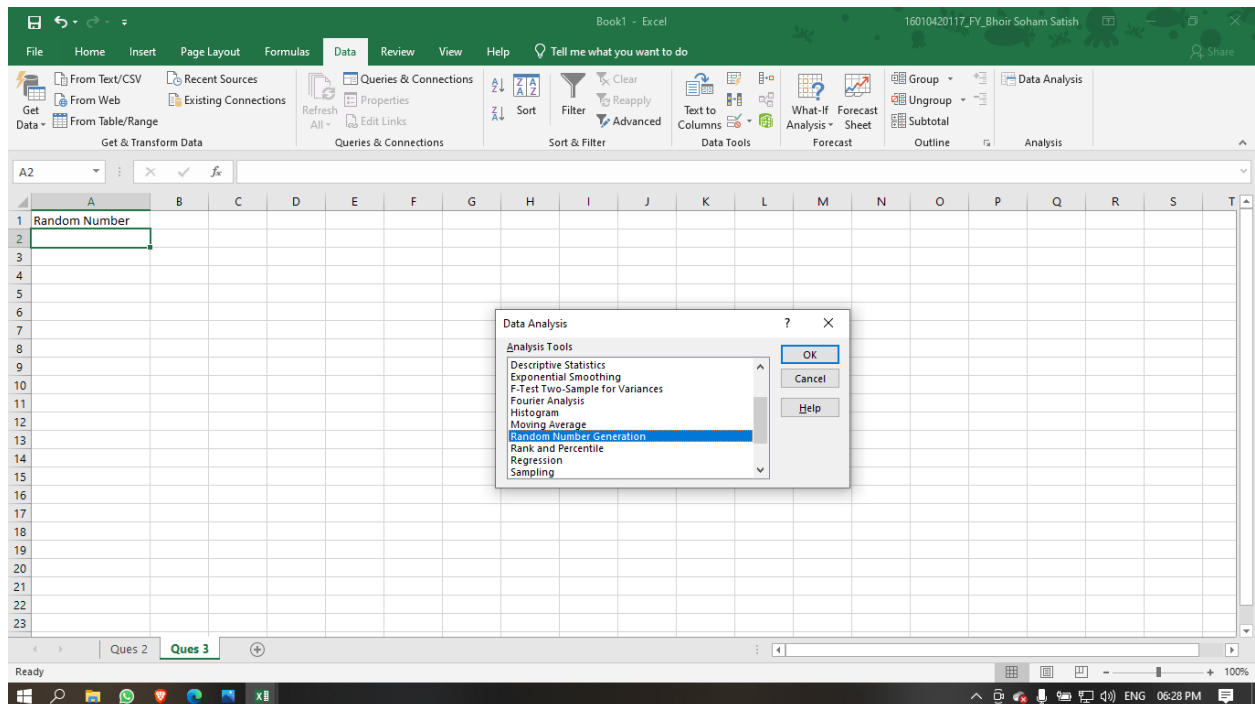


Final Output:



d) To simulate rolling two six-sided dice and recording the sum 250 times.

Steps:



Book1 - Excel 16010420117_FY_Bhoir Soham Satish

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Get Data From Text/CSV Recent Sources Existing Connections Queries & Connections Sort & Filter Filter Clear Reapply Advanced Text to Columns What-If Analysis Forecast Data Tools Group Ungroup Subtotal Data Analysis

Get & Transform Data Queries & Connections Sort & Filter Data Tools Forecast Outline Analysis

SUM X ✓ ✖ =SUM(D3:D12)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Random Number			Frequency															
2		5	Free Throws	1	0														
3		7		2	0														
4		5		3	8														
5		7		4	36														
6		5		5	115														
7		7		6	189														
8		8		7	256														
9		5		8	238														
10		8		9	135														
11		6		10	23														
12		8																	
13		7	Total		=SUM(D3:D12)														
14		7			SUM(number1, [number2], ...)														
15		9																	
16		6																	
17		5																	
18		5																	
19		6																	
20		6																	
21		9																	
22		8																	
23		7																	

Ques 2 Ques 3

Edit

Book1 - Excel 16010420117_FY_Bhoir Soham Satish

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Get Data From Text/CSV Recent Sources Existing Connections Queries & Connections Sort & Filter Filter Clear Reapply Advanced Text to Columns What-If Analysis Forecast Data Tools Group Ungroup Subtotal Data Analysis

Get & Transform Data Queries & Connections Sort & Filter Data Tools Forecast Outline Analysis

H15 X ✓ ✖

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Random Number			Frequency															
2		5	Free Throws	1	0														
3		7		2	0														
4		5		3	8														
5		7		4	36														
6		5		5	115														
7		7		6	189														
8		8		7	256														
9		5		8	238														
10		8		9	135														
11		6		10	23														
12		8																	
13		7	Total		1000														
14		7																	
15		9																	
16		6																	
17		5																	
18		5																	
19		6																	
20		6																	
21		9																	
22		8																	
23		7																	

Ques 2 Ques 3

Point

Histogram

Input Range: SAS2:SAS1001

Bin Range: SC\$3:SC\$12

☐ Labels

Output options

☒ Output Range: SH\$15

☐ New Worksheet Ply:

☐ New Workbook

☐ Pareto (sorted histogram)

☐ Cumulative Percentage

☒ Chart Output

Final Output:

