FML ASSIGNMENT 1-811296474

2023-09-09

#Step1: Importing the data #Source of Dataset:https://www.kaggle.com/datasets/gadigevishalsai/sachin-tendulkar-100-centuries (https://www.kaggle.com/datasets/gadigevishalsai/sachin-tendulkar-100-centuries)

bhargav1<-read.csv("C:/Users/BHARGAV/OneDrive/Desktop/The Dataset.csv")
bhargav1</pre>

	Century.Number	Runs.Scored	Balls.Faced	Strike.Rate	Mode.Of.Dismissal
	1	119	189	62.96	Not Out
	2	148	213	69.48	Not Out
	3	114	161	70.80	Caught
•	4	111	270	41.11	Caught
	5	165	296	55.74	Caught
	6	104	161	64.59	Not Out
	7	142	224	63.39	Caught
	8	110	130	84.61	Bowled
	9	115	136	84.55	Run Out
.0	10	105	134	78.35	Caught
1	11	179	322	55.59	Caught
2	12	112	107	104.67	Not Out
.3	13	127	138	92.02	Not Out
4	14	137	137	100.00	Run Out
.5	15	100	111	90.09	Stumped
.6	16	118	140	84.28	Caught
.7	17	122	263	68.92	Caught
.8	18	177	360	49.16	Caught
9	19	110	138	79.71	Run Out
.0	20	114	126	90.47	Stumped
1	21	169	254	66.53	Caught
2	22	104	97	107.21	Caught
3	23	117	137	85.40	Bowled
4	24	143	247	57.89	Caught
.5	25	139	266	52.25	Caught
.6	26	148	244	60.65	Bowled
.7	27	155	191	81.15	Not Out
.8	28	177	207	85.50	Bowled
9	29	100	89	112.35	
.9	30	143		109.16	Caught Caught
			131		=
1	31	134	131	102.29	LBW
2	32	100	103	97.08	Not Out
3	33	128	131	97.70	Stumped
4	34	127	130	97.69	Not Out
5	35	141	128	110.15	Run Out
6	36	118	112	105.35	Not Out
7	37	124	92	134.78	Not Out
8	38	113	151	74.83	Caught
9	39	136	273	49.81	Caught
0	40	124	235	52.76	Not Out
1	41	140	101	138.61	Not Out
2	42	120	141	85.10	Caught
.3	43	126	248	50.80	Not Out
4	44	217	344	63.08	Caught
5	45	186	150	124.00	Not Out
6	46	116	191	60.73	Caught
7	47	122	138	88.40	Caught
8	48	101	140	72.14	Run Out
.9	49	122	233	52.36	Caught
0	50	201	281	71.53	Not Out
1	51	146	153	95.42	Caught

## 52		52	126	230	EA 70	Caugh+
					54.78	Caught
## 53 ## 54		53 54	139	125	111.20	Caught
			122	131	93.12	Not Out
## 55		55	101	129	78.29	Caught
## 56		56	146	132	110.60	Caught
## 57		57	155	184	84.23	Caught
## 58		58	103	197	52.28	Caught
## 59		59	176	316	55.69	Caught
## 60		60	117	260	45.00	LBW
## 61		61	105	108	97.22	Not Out
## 62		62	113	102	110.78	Caught
## 63		63	193	330	58.48	LBW
## 64		64	176	298	55.69	Caught
## 65		65	152	151	100.66	Bowled
## 66		66	100	119	84.03	Caught
## 67		67	102	91	112.08	Caught
## 68		68	241	436	55.27	Not Out
## 69		69	141	135	104.44	Caught
## 70		70	194	348	55.74	Not Out
## 71		71	248	379	65.43	Not Out
## 72		72	123	130	94.61	Bowled
## 73		73	109	196	55.61	LBW
## 74		74	100	113	88.49	LBW
## 75		75	141	148	95.27	Not Out
## 76		76	100	76	131.57	Not Out
## 77		77	101	169	59.76	Caught
## 78		78	122	226	53.98	Not Out
## 79		79	154	243	63.37	Not Out
## 80		80	153	205	74.63	Caught
## 81		81	117	120	97.50	Not Out
## 82		82	109	188	57.97	LBW
## 83		83	103	196	52.55	Not Out
## 84		84	163	133	122.55	Not Out
## 85		85	160	260	61.53	Caught
## 86		86	138	133	103.75	LBW
## 87		87	175	141	124.11	Caught
## 88		88	100	211	47.39	Not Out
## 89		89	105	166	63.25	Not Out
## 90		90	143	182	78.57	Caught
## 91		91	100	179	55.86	Bowled
		92	106	206		
## 92 ## 93		93	200	200 147	51.45 136.05	Caught Not Out
## 94		94	203	347		
					58.50	Caught
## 95		95 06	214	363	58.95	Bowled
## 96		96 07	111	241	46.05	Not Out
## 97		97	146	314	46.49	Bowled
## 98		98	120	115	104.34	Caught
## 99		99	111	101	109.90	Caught
## 100		100	114	147	77.55	Caught
##		=	Player.Of.		Against	Format Position
## 1	Mohammad Az			Tendulkar	_	Test Match 6
## 2	Mohammad Az	zharuddin	Rav	i Shastri	Australia	Test Match 6

ı					
## 3	Mohammad Azharuddin	Mike Whitney		Test Match	4
## 4	Mohammad Azharuddin	Brian McMillan			4
## 5	Mohammad Azharuddin	Sachin Tendulkar		Test Match	4
## 6	Mohammad Azharuddin	Manoj Prabhakar		Test Match	4
## 7	Mohammad Azharuddin	Anil Kumble		Test Match	4
## 8	Mohammad Azharuddin	Sachin Tendulkar	Australia	ODI	2
## 9	Mohammad Azharuddin	Sachin Tendulkar		ODI	2
## 10	Mohammad Azharuddin	Carl Hooper		ODI	2
## 11	Mohammad Azharuddin	Carl Hooper			4
## 12	Mohammad Azharuddin	Sachin Tendulkar	Sri Lanka	ODI	2
## 13	Mohammad Azharuddin	Sachin Tendulkar	Kenya	ODI	2
## 14	Mohammad Azharuddin	Sanath Jayasuriya		ODI	2
## 15	Mohammad Azharuddin	Aamer Sohail	Pakistan		2
## 16	Mohammad Azharuddin	Sachin Tendulkar	Pakistan	ODI	2
## 17	Mohammad Azharuddin	Nasser Hussain	-	Test Match	4
## 18	Mohammad Azharuddin	Sourav Ganguly	_	Test Match	4
## 19	Sachin Tendulkar	Sanath Jayasuriya	Sri Lanka	ODI	2
## 20	Sachin Tendulkar	Sachin Tendulkar		ODI	1
## 21	Sachin Tendulkar	Brian McMillan		Test Match	5
## 22	Sachin Tendulkar	Sachin Tendulkar	Zimbabwe	ODI	1
## 23	Sachin Tendulkar	Sachin Tendulkar	New Zealand	ODI	2
## 24	Sachin Tendulkar	Sanath Jayasuriya	Sri Lanka	Test Match	4
## 25	Sachin Tendulkar	Aravinda de Silva	Sri Lanka	Test Match	4
## 26	Sachin Tendulkar	Sourav Ganguly		Test Match	5
## 27	Mohammad Azharuddin	Sachin Tendulkar	Australia	Test Match	4
## 28	Mohammad Azharuddin	Michael Kasprowicz	Australia	Test Match	4
## 29	Mohammad Azharuddin	Sachin Tendulkar	Australia	ODI	2
## 30	Mohammad Azharuddin	Sachin Tendulkar	Australia	ODI	2
## 31	Mohammad Azharuddin	Sachin Tendulkar	Australia	ODI	2
## 32	Mohammad Azharuddin	Sachin Tendulkar	Kenya	ODI	2
## 33	Mohammad Azharuddin	Sachin Tendulkar	Sri Lanka	ODI	2
## 34	Mohammad Azharuddin	Sachin Tendulkar	Zimbabwe	ODI	2
## 35	Mohammad Azharuddin	Sachin Tendulkar	Australia	ODI	2
## 36	Mohammad Azharuddin	Sachin Tendulkar	Zimbabwe	ODI	2
## 37	Mohammad Azharuddin	Sachin Tendulkar	Zimbabwe	ODI	2
## 38	Mohammad Azharuddin	Simon Doull	New Zealand	Test Match	5
## 39	Mohammad Azharuddin	Sachin Tendulkar	Pakistan	Test Match	4
## 40	Mohammad Azharuddin	Mahela Jayawardene	Sri Lanka	Test Match	4
## 41	Mohammad Azharuddin	Sachin Tendulkar	Kenya	ODI	4
## 42	Sachin Tendulkar	Robin Singh	Sri Lanka	ODI	1
## 43	Sachin Tendulkar	Javagal Srinath	New Zealand	Test Match	4
## 44	Sachin Tendulkar	Sachin Tendulkar	New Zealand	Test Match	4
## 45	Sachin Tendulkar	Sachin Tendulkar	New Zealand	ODI	2
## 46	Sachin Tendulkar	Sachin Tendulkar	Australia	Test Match	4
## 47	Sourav Ganguly	Sachin Tendulkar	South Africa	ODI	2
## 48	Sourav Ganguly	Sachin Tendulkar	Sri Lanka	ODI	2
## 49	Sourav Ganguly	Javagal Srinath	Zimbabwe	Test Match	4
## 50	Sourav Ganguly	Andy Flower	Zimbabwe	Test Match	4
## 51	Sourav Ganguly	Grant Flower	Zimbabwe	ODI	2
## 52	Sourav Ganguly	Matthew Hayden	Australia	Test Match	4
## 53	Sourav Ganguly	Sachin Tendulkar	Australia	ODI	2
## 54	Sourav Ganguly	Sachin Tendulkar	West Indies	ODI	2

##	55	Sourav Ganguly	Garv Kirsten	South Africa	ODI	2
##	56	Sourav Ganguly	Sachin Tendulkar	Kenya	ODI	2
##	57	Sourav Ganguly	Shaun Pollock		Test Match	4
##	58	Sourav Ganguly	Craig White		Test Match	4
	59	Sourav Ganguly	Anil Kumble		Test Match	4
##		Sourav Ganguly	VVS Laxman	West Indies		4
	61	Sourav Ganguly	No One	England		4
##		Sourav Ganguly	Sachin Tendulkar	Sri Lanka		4
##		Sourav Ganguly	Rahul Dravid		Test Match	4
	64	Sourav Ganguly	Sachin Tendulkar	West Indies		4
	65	Sourav Ganguly	Sachin Tendulkar	Namibia	ODI	2
##		Rahul Dravid	Sachin Tendulkar	Australia		2
##		Sourav Ganguly	Virender Sehwag			2
	68	Sourav Ganguly	Sachin Tendulkar		Test Match	4
##		- ·				2
##		Sourav Ganguly Rahul Dravid	Sachin Tendulkar	Pakistan	Test Match	4
		Rahul Dravid	Virender Sehwag Irfan Pathan			
	71			_	Test Match	4
##		Sourav Ganguly	Inzamam-ul-Haq	Pakistan	ODI	2
##	_	Rahul Dravid	Anil Kumble		Test Match	4
	74 75	Rahul Dravid	Salman Butt	Pakistan		2
##		Rahul Dravid	Sachin Tendulkar	West Indies	ODI	2
##		Rahul Dravid	Sachin Tendulkar	West Indies	ODI	4
	77	Rahul Dravid	Mashrafe Mortaza	_	Test Match	4
	78	Rahul Dravid	Zaheer Khan	_	Test Match	4
	79	Anil Kumble	Andrew Symonds		Test Match	4
	80	Anil Kumble	Sachin Tendulkar		Test Match	4
##		MS Dhoni	Sachin Tendulkar	Australia	ODI	1
##		MS Dhoni	Jason Krejza		Test Match	4
##		MS Dhoni	Virender Sehwag	•	Test Match	4
##	84	MS Dhoni	Sachin Tendulkar	New Zealand	ODI	2
##	85	MS Dhoni	Sachin Tendulkar	New Zealand		4
##	86	MS Dhoni	Sachin Tendulkar	Sri Lanka	ODI	1
##	87	MS Dhoni	Sachin Tendulkar	Australia	ODI	2
##	88	MS Dhoni	Mahela Jayawardene		Test Match	5
##	89	Virender Sehwag	Sachin Tendulkar	Bangladesh	Test Match	4
##	90	MS Dhoni	Zaheer Khan	Bangladesh	Test Match	4
##	91	MS Dhoni	Hashim Amla	South Africa	Test Match	4
##	92	MS Dhoni	Hashim Amla	South Africa	Test Match	4
##	93	MS Dhoni	Sachin Tendulkar	South Africa	ODI	2
##	94	MS Dhoni	Kumar Sangakkara	Sri Lanka	Test Match	4
##	95	MS Dhoni	Sachin Tendulkar	Australia	Test Match	4
##	96	MS Dhoni	Jacques Kallis	South Africa	Test Match	5
##	97	MS Dhoni	Jacques Kallis	South Africa	Test Match	4
##	98	MS Dhoni	Andrew Strauss	England	ODI	2
##	99	MS Dhoni	Dale Steyn	South Africa	ODI	2
##	100	Virat Kohli	Shakib Al Hasan	Bangladesh	ODI	2
##		Innings		Venue	City	
##	1	4	Old Ti	rafford	Manchester	
##	2	2	Sydney Cricket	Ground	Sydney	
##	3	2		Ground	Perth	
##	4	2	Wanderers S	Stadium :	Johannesburg	
##	5	1	MA Chidambaram S		Chennai	

## 6	3	Sinhalese Sports Club Ground	Colombo
## 7	1	KD Singh Babu Stadium	Lucknow
## 8	1	R Premadasa Stadium	Colombo
## 9	2	IPCL Sports Complex Ground	Vadodara
## 10	1	Sawai Mansingh Stadium	Jaipur
## 11	1	Vidarbha Cricket Association Ground	Nagpur
## 12	2	Sharjah Cricket Association Stadium	Sharjah
## 13	2	Barabati Stadium	Cuttack
## 14	1	Feroz Shah Kotla Ground	New Delhi
## 15	1	Padang	Singapore
## 16	1	Sharjah Cricket Association Stadium	Sharjah
## 17	3	Edgbaston	Birmingham
## 18	1	Trent Bridge	Nottingham
## 19	1	R Premadasa Stadium	Colombo
## 20	1	Wankhede Stadium	Mumbai
## 21	2	Newlands Cricket Ground	Cape Town
## 22	1	Willowmoore Park	Benoni
## 23	2	M Chinnaswamy Stadium	Bangalore
## 24	1	R Premadasa Stadium	Colombo
## 25	2	Sinhalese Sports Club Ground	Colombo
## 26	1	Wankhede Stadium	Mumbai
## 27	3	MA Chidambaram Stadium	Chennai
## 27	1	M Chinnaswamy Stadium	Bangalore
## 29	2	Green Park Stadium	=
	2		Kanpur
## 30		Sharjah Cricket Association Stadium	Sharjah
## 31	2	Sharjah Cricket Association Stadium	Sharjah
## 32	2	Eden Gardens	Kolkata
## 33	1	R Premadasa Stadium	Colombo
## 34	2	Queens Sports Club	Bulawayo
## 35	1	Bangabandhu National Stadium	Dhaka
## 36	2	Sharjah Cricket Association Stadium	Sharjah
## 37	2	Sharjah Cricket Association Stadium	Sharjah
## 38	3	Basin Reserve	Wellington
## 39	4	MA Chidambaram Stadium	Chennai
## 40	3	Sinhalese Sports Club Ground	Colombo
## 41	1	County Ground	Bristol
## 42	1	Sinhalese Sports Club Ground	Colombo
## 43	3	Punjab Cricket Association Stadium	Mohali
## 44	1	Sardar Patel Stadium	Ahmedabad
## 45	1	Lal Bahadur Shastri Stadium	Hyderabad
## 46	2	Melbourne Cricket Ground	Melbourne
## 47	2	IPCL Sports Complex Ground	Vadodara
## 48	1	Sharjah Cricket Association Stadium	Sharjah
## 49	2	Feroz Shah Kotla Ground	New Delhi
## 50	1	Vidarbha Cricket Association Ground	Nagpur
## 51	1	Barkatullah Khan Stadium	Jodhpur
## 52	2	MA Chidambaram Stadium	Chennai
## 53	1	Nehru Stadium	Indore
## 54	2	Harare Sports Club	Harare
## 55	1	New Wanderers Stadium	Johannesburg
## 56	1	Boland Park	Paarl
## 57	1	Goodyear Park	Bloemfontein

سير ا	F0	2 Candan Batal Ctadium	ل مامل مسما ۵
##		2 Sardar Patel Stadium	Ahmedabad
##		2 Vidarbha Cricket Association Ground	Nagpur
##		1 Queen's Park Oval	Port of Spain
##			Chester-le-Street
##		1 County Ground	Bristol
##		1 Headingley	Leeds
##		3 Eden Gardens	Kolkata
##		1 City Oval	•
##		1 Roop Singh Stadium	Gwalior
##	67	1 Lal Bahadur Shastri Stadium	Hyderabad
##		1 Sydney Cricket Ground	Sydney
##		2 Rawalpindi Cricket Stadium	Rawalpindi
##		1 Multan Cricket Stadium	Multan
##		2 Bangabandhu National Stadium	Dhaka
##		1 Sardar Patel Stadium	Ahmedabad
##	73	1 Feroz Shah Kotla Ground	New Delhi
##	74	1 Arbab Niaz Stadium	Peshawar
##	75	1 Kinrara Academy Oval	Kuala Lumpur
##	76	1 IPCL Sports Complex Ground	Vadodara
##	77	1 Bir Shrestha Shahid Ruhul Amin Stadium	Chittagong
##	78	1 Sher-e-Bangla National Stadium	Mirpur
##	79	2 Sydney Cricket Ground	Sydney
##	80	1 Adelaide Oval	Adelaide
##	81	2 Sydney Cricket Ground	Sydney
##	82	1 Vidarbha Cricket Association Ground	Nagpur
##	83	4 MA Chidambaram Stadium	Chennai
##	84	1 AMI Stadium	Christchurch
##	85	2 Seddon Park	Hamilton
##	86	1 R Premadasa Stadium	Colombo
##	87	2 Rajiv Gandhi International Stadium	Hyderabad
##	88	3 Sardar Patel Stadium	Ahmedabad
##	89	1 Zohur Ahmed Chowdhury Stadium	Chittagong
##	90	2 Sher-e-Bangla National Stadium	Mirpur
##	91	3 Vidarbha Cricket Association Ground	Nagpur
##	92	2 Eden Gardens	Kolkata
##	93	1 Roop Singh Stadium	Gwalior
##	94	2 Sinhalese Sports Club Ground	Colombo
##	95	2 M Chinnaswamy Stadium	Bangalore
##	96	3 SuperSport Park	Centurion
##	97	2 Newlands Cricket Ground	Cape Town
##	98	1 M Chinnaswamy Stadium	Bangalore
##	99	1 VCA Stadium	Nagpur
##	100	1 Sher-e-Bangla National Stadium	Mirpur
##		Venue.Location Result	
##	1	Away Drawn	
##	2	Away Drawn	
##	3	Away Lost	
##	4	Away Drawn	
##	5	Home Won	
##	6	Away Won	
##	7	Home Won	
##	8	Neutral Won	

## 9			
## 11		Home	Won
## 12		Home	Won
## 14	## 11	Home	Drawn
## 14	## 12	Neutral	Won
## 15	## 13	Home	Won
## 16	## 14	Home	Lost
## 17	## 15	Neutral	Lost
## 18	## 16	Neutral	Won
## 19	## 17	Away	Lost
## 20	## 18	Away	Drawn
## 21	## 19	Away	Lost
## 22	## 20	Home	Won
## 23	## 21	Away	Lost
## 24	## 22	Neutral	Won
## 25	## 23	Home	Won
## 26	## 24	Away	Drawn
## 26	## 25	Away	Drawn
## 27	## 26	-	Drawn
## 29		Home	Won
## 29	## 28	Home	Lost
## 30 Neutral Won ## 31 Neutral Won ## 32 Home Won ## 33 Away Won ## 34 Away Won ## 35 Neutral Won ## 36 Neutral Won ## 37 Neutral Won ## 38 Away Lost ## 39 Home Lost ## 40 Away Drawn ## 41 Neutral Won ## 42 Away Won ## 43 Home Drawn ## 44 Home Drawn ## 45 Home Won ## 46 Away Lost ## 47 Home Won ## 48 Neutral Lost ## 49 Home Won ## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 56 Neutral Won ## 57 Away Lost ## 57 Away Lost ## 58 Home Drawn ## 59 Home Drawn ## 59 Home Drawn		Home	Won
## 31			
## 32			
## 33			
## 34 Away Won ## 35 Neutral Won ## 36 Neutral Won ## 37 Neutral Won ## 38 Away Lost ## 39 Home Lost ## 40 Away Drawn ## 41 Neutral Won ## 42 Away Won ## 43 Home Drawn ## 44 Home Drawn ## 45 Home Won ## 46 Away Lost ## 47 Home Won ## 48 Neutral Lost ## 49 Home Won ## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 35			
## 36		-	
## 37			
## 38			
## 39			
## 40 Away Drawn ## 41 Neutral Won ## 42 Away Won ## 43 Home Drawn ## 44 Home Drawn ## 45 Home Won ## 46 Away Lost ## 47 Home Won ## 48 Neutral Lost ## 49 Home Drawn ## 50 Home Drawn ## 51 Home Won ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 58 Home Drawn ## 59 Home Won		,	
## 41 Neutral Won ## 42 Away Won ## 43 Home Drawn ## 44 Home Drawn ## 45 Home Won ## 46 Away Lost ## 47 Home Won ## 48 Neutral Lost ## 49 Home Drawn ## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 42 Away Won ## 43 Home Drawn ## 44 Home Drawn ## 45 Home Won ## 46 Away Lost ## 47 Home Won ## 48 Neutral Lost ## 49 Home Drawn ## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 43			
## 44 Home Drawn ## 45 Home Won ## 46 Away Lost ## 47 Home Won ## 48 Neutral Lost ## 49 Home Won ## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won		,	
## 45 Home Won ## 46 Away Lost ## 47 Home Won ## 48 Neutral Lost ## 49 Home Won ## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 46 Away Lost ## 47 Home Won ## 48 Neutral Lost ## 49 Home Won ## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 47			
## 48 Neutral Lost ## 49 Home Won ## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won		-	
## 49 Home Won ## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 50 Home Drawn ## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 51 Home Lost ## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 52 Home Won ## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 53 Home Won ## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 54 Neutral Won ## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 55 Away Lost ## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 56 Neutral Won ## 57 Away Lost ## 58 Home Drawn ## 59 Home Won			
## 57 Away Lost ## 58 Home Drawn ## 59 Home Won		· ·	
## 58 Home Drawn ## 59 Home Won			
## 59 Home Won		-	
## 60 Away Won			
	## 60	Away	Won

## 61	Away	N-R	
## 62	Neutral	Won	
## 63	Away	Won	
## 64	Home	Drawn	
## 65	Neutral	Won	
## 66	Home	Won	
## 67	Home	Won	
## 68	Away	Drawn	
## 69	Away	Lost	
## 70	Away	Won	
## 71	Away	Won	
## 72	Home	Lost	
## 73	Home	Won	
## 74	Away	Lost	
## 75	Neutral	Lost	
## 76	Home	Won	
## 77	Away	Drawn	
## 78	Away	Won	
## 79	Away	Lost	
## 80	Away	Drawn	
## 81	Away	Won	
## 82	Home	Won	
## 83	Home	Won	
## 84	Away	Won	
## 85	Away	Won	
## 86	Away	Won	
## 87	Home	Lost	
## 88	Home	Drawn	
## 89	Away	Won	
## 90	Away	Won	
## 91	Home	Lost	
## 92	Home	Won	
## 93	Home	Won	
## 94	Away	Drawn	
## 95	Home	Won	
## 96	Away	Lost	
## 97	Away		
## 98	Home	Tied	
## 99	Home	Lost	
## 100	Away	Lost	

#Step2: Descriptive Statistics for Quantitative variables

summary(bhargav1)

```
##
   Century.Number
                    Runs.Scored
                                   Balls.Faced
                                                   Strike.Rate
   Min. : 1.00
                                        : 76.0
                                                        : 41.11
##
                   Min.
                          :100.0
                                  Min.
                                                 Min.
   1st Qu.: 25.75
                   1st Qu.:111.0
                                   1st Qu.:131.0 1st Qu.: 57.95
##
##
   Median : 50.50
                   Median :124.0
                                  Median :157.0 Median : 78.32
   Mean : 50.50
                   Mean :135.6
                                        :188.2 Mean : 79.90
                                  Mean
##
   3rd Qu.: 75.25
                                   3rd Qu.:241.5 3rd Qu.: 97.69
##
                   3rd Qu.:149.0
##
   Max.
          :100.00
                   Max.
                          :248.0
                                  Max.
                                         :436.0 Max.
                                                        :138.61
##
   Mode.Of.Dismissal
                       Captain
                                       Player.Of.The.Match
                                                            Against
   Length:100
                     Length:100
                                       Length:100
                                                          Length: 100
##
                     Class :character
##
   Class :character
                                       Class :character
                                                          Class :character
   Mode :character Mode :character Mode :character
##
                                                          Mode :character
##
##
##
      Format
##
                        Position
                                      Innings
                                                     Venue
##
   Length:100
                     Min.
                            :1.00 Min.
                                          :1.00
                                                Length:100
   Class :character
                     1st Qu.:2.00 1st Qu.:1.00
                                                Class :character
##
   Mode :character
                     Median :4.00 Median :1.00 Mode :character
##
                     Mean :3.14 Mean :1.63
##
                     3rd Qu.:4.00
                                   3rd Qu.:2.00
##
                     Max.
                            :6.00
                                          :4.00
##
                                   Max.
##
       City
                     Venue.Location
                                          Result
##
   Length:100
                     Length:100
                                       Length:100
   Class :character
                     Class :character
                                       Class :character
##
                     Mode :character
##
   Mode :character
                                       Mode :character
##
##
##
mean(bhargav1$Runs.Scored)
## [1] 135.57
```

median(bhargav1\$Runs.Scored)

```
## [1] 124
```

sum(bhargav1\$Runs.Scored)

```
## [1] 13557
```

sd(bhargav1\$Runs.Scored)

```
## [1] 33.33038
```

```
var(bhargav1$Runs.Scored)
 ## [1] 1110.914
 max(bhargav1$Runs.Scored)
 ## [1] 248
 min(bhargav1$Runs.Scored)
 ## [1] 100
 str(bhargav1$Runs.Scored)
    int [1:100] 119 148 114 111 165 104 142 110 115 105 ...
#Step3: Descriptive Statistics for Categorical Variables
 table(bhargav1$Captain)
 ##
            Anil Kumble Mohammad Azharuddin
 ##
                                                         MS Dhoni
                                                                          Rahul Dravid
                       2
                                           33
                                                                                     9
 ##
                                                               18
       Sachin Tendulkar
                              Sourav Ganguly
                                                      Virat Kohli
                                                                      Virender Sehwag
 ##
 ##
                      13
                                           23
 bhargav1$Captain
```

```
[1] "Mohammad Azharuddin" "Mohammad Azharuddin" "Mohammad Azharuddin"
##
##
     [4] "Mohammad Azharuddin" "Mohammad Azharuddin"
                                                       "Mohammad Azharuddin"
     [7] "Mohammad Azharuddin" "Mohammad Azharuddin" "Mohammad Azharuddin"
##
##
    [10] "Mohammad Azharuddin" "Mohammad Azharuddin" "Mohammad Azharuddin"
    [13] "Mohammad Azharuddin" "Mohammad Azharuddin"
                                                       "Mohammad Azharuddin"
##
    [16] "Mohammad Azharuddin" "Mohammad Azharuddin" "Mohammad Azharuddin"
##
    [19] "Sachin Tendulkar"
                                "Sachin Tendulkar"
##
                                                       "Sachin Tendulkar"
    [22] "Sachin Tendulkar"
                                "Sachin Tendulkar"
                                                       "Sachin Tendulkar"
##
    [25] "Sachin Tendulkar"
                                "Sachin Tendulkar"
                                                       "Mohammad Azharuddin"
##
##
    [28] "Mohammad Azharuddin" "Mohammad Azharuddin"
                                                       "Mohammad Azharuddin"
##
    [31] "Mohammad Azharuddin"
                                "Mohammad Azharuddin"
                                                       "Mohammad Azharuddin"
    [34] "Mohammad Azharuddin" "Mohammad Azharuddin" "Mohammad Azharuddin"
##
    [37] "Mohammad Azharuddin"
                                "Mohammad Azharuddin"
                                                       "Mohammad Azharuddin"
##
##
    [40] "Mohammad Azharuddin"
                                "Mohammad Azharuddin"
                                                       "Sachin Tendulkar"
    [43] "Sachin Tendulkar"
                                "Sachin Tendulkar"
                                                       "Sachin Tendulkar"
##
                                "Sourav Ganguly"
    [46] "Sachin Tendulkar"
                                                       "Sourav Ganguly"
##
    [49] "Sourav Ganguly"
                                "Sourav Ganguly"
                                                       "Sourav Ganguly"
##
##
   [52] "Sourav Ganguly"
                                "Sourav Ganguly"
                                                       "Sourav Ganguly"
    [55] "Sourav Ganguly"
                                "Sourav Ganguly"
                                                       "Sourav Ganguly"
##
    [58] "Sourav Ganguly"
                                "Sourav Ganguly"
                                                       "Sourav Ganguly"
##
    [61] "Sourav Ganguly"
                                "Sourav Ganguly"
                                                       "Sourav Ganguly"
##
   [64] "Sourav Ganguly"
                                "Sourav Ganguly"
                                                       "Rahul Dravid"
##
                                "Sourav Ganguly"
                                                       "Sourav Ganguly"
##
    [67] "Sourav Ganguly"
                                                       "Sourav Ganguly"
##
    [70] "Rahul Dravid"
                                "Rahul Dravid"
##
    [73] "Rahul Dravid"
                                "Rahul Dravid"
                                                       "Rahul Dravid"
                                                       "Rahul Dravid"
    [76] "Rahul Dravid"
                                "Rahul Dravid"
##
    [79] "Anil Kumble"
                                "Anil Kumble"
                                                       "MS Dhoni"
##
    [82] "MS Dhoni"
                                "MS Dhoni"
                                                       "MS Dhoni"
##
    [85] "MS Dhoni"
                                "MS Dhoni"
                                                       "MS Dhoni"
##
                                                       "MS Dhoni"
    [88] "MS Dhoni"
                                "Virender Sehwag"
##
                                "MS Dhoni"
                                                       "MS Dhoni"
##
    [91] "MS Dhoni"
##
    [94] "MS Dhoni"
                                "MS Dhoni"
                                                       "MS Dhoni"
    [97] "MS Dhoni"
                                "MS Dhoni"
                                                       "MS Dhoni"
##
## [100] "Virat Kohli"
```

```
str(bhargav1$Captain)
```

```
## chr [1:100] "Mohammad Azharuddin" "Mohammad Azharuddin" ...
```

#Step4: Transforming The Variables

```
log(bhargav1$Runs.Scored)
```

```
##
     [1] 4.779123 4.997212 4.736198 4.709530 5.105945 4.644391 4.955827 4.700480
     [9] 4.744932 4.653960 5.187386 4.718499 4.844187 4.919981 4.605170 4.770685
##
    [17] 4.804021 5.176150 4.700480 4.736198 5.129899 4.644391 4.762174 4.962845
##
##
    [25] 4.934474 4.997212 5.043425 5.176150 4.605170 4.962845 4.897840 4.605170
    [33] 4.852030 4.844187 4.948760 4.770685 4.820282 4.727388 4.912655 4.820282
##
##
   [41] 4.941642 4.787492 4.836282 5.379897 5.225747 4.753590 4.804021 4.615121
   [49] 4.804021 5.303305 4.983607 4.836282 4.934474 4.804021 4.615121 4.983607
##
   [57] 5.043425 4.634729 5.170484 4.762174 4.653960 4.727388 5.262690 5.170484
##
   [65] 5.023881 4.605170 4.624973 5.484797 4.948760 5.267858 5.513429 4.812184
##
##
   [73] 4.691348 4.605170 4.948760 4.605170 4.615121 4.804021 5.036953 5.030438
##
   [81] 4.762174 4.691348 4.634729 5.093750 5.075174 4.927254 5.164786 4.605170
   [89] 4.653960 4.962845 4.605170 4.663439 5.298317 5.313206 5.365976 4.709530
##
##
   [97] 4.983607 4.787492 4.709530 4.736198
```

log(bhargav1\$Innings)

```
##
    [1] 1.3862944 0.6931472 0.6931472 0.6931472 0.0000000 1.0986123 0.0000000
##
   [8] 0.0000000 0.6931472 0.0000000 0.0000000 0.6931472 0.6931472 0.0000000
   [15] 0.0000000 0.0000000 1.0986123 0.0000000 0.0000000 0.0000000 0.6931472
##
   [22] 0.0000000 0.6931472 0.0000000 0.6931472 0.0000000 1.0986123 0.0000000
##
   [29] 0.6931472 0.6931472 0.6931472 0.6931472 0.0000000 0.6931472 0.0000000
##
##
   [36] 0.6931472 0.6931472 1.0986123 1.3862944 1.0986123 0.0000000 0.0000000
   [43] 1.0986123 0.0000000 0.0000000 0.6931472 0.6931472 0.0000000 0.6931472
##
  [50] 0.0000000 0.0000000 0.6931472 0.0000000 0.6931472 0.0000000 0.0000000
##
   ##
   ##
   ##
   [78] 0.0000000 0.6931472 0.0000000 0.6931472 0.0000000 1.3862944 0.0000000
##
   [85] 0.6931472 0.0000000 0.6931472 1.0986123 0.0000000 0.6931472 1.0986123
##
   [92] 0.6931472 0.0000000 0.6931472 0.6931472 1.0986123 0.6931472 0.0000000
##
   [99] 0.0000000 0.0000000
```

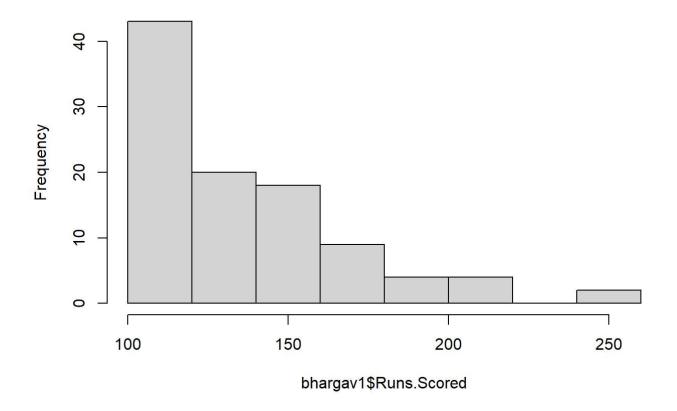
bhargav2<-bhargav1\$Strike.Rate- mean(bhargav1\$Strike.Rate)/sd(bhargav1\$Strike.Rate)
bhargav2</pre>

```
##
     [1]
         59.70101 66.22101 67.54101 37.85101 52.48101
                                                          61.33101
                                                                    60.13101
##
     [8]
         81.35101 81.29101
                             75.09101
                                       52.33101 101.41101
                                                          88.76101
                                                                    96.74101
         86.83101 81.02101 65.66101 45.90101
                                               76.45101 87.21101
##
    [15]
                                                                    63.27101
##
    [22] 103.95101
                   82.14101 54.63101
                                      48.99101 57.39101 77.89101
                                                                    82.24101
##
    [29] 109.09101 105.90101 99.03101
                                      93.82101 94.44101
                                                          94.43101 106.89101
    [36] 102.09101 131.52101 71.57101
                                      46.55101 49.50101 135.35101
##
                                                                    81.84101
                  59.82101 120.74101
##
    [43]
         47.54101
                                      57.47101 85.14101
                                                          68.88101
                                                                    49.10101
##
    [50]
         68.27101 92.16101 51.52101 107.94101 89.86101 75.03101 107.34101
         80.97101 49.02101 52.43101 41.74101 93.96101 107.52101
    [57]
                                                                    55.22101
##
##
    [64]
         52.43101
                   97.40101 80.77101 108.82101 52.01101 101.18101
                                                                    52.48101
         62.17101 91.35101 52.35101 85.23101 92.01101 128.31101 56.50101
##
    [71]
         50.72101 60.11101 71.37101
                                      94.24101 54.71101 49.29101 119.29101
##
    [78]
         58.27101 100.49101 120.85101
                                      44.13101 59.99101 75.31101
##
    [85]
                                                                    52.60101
##
    [92]
         48.19101 132.79101 55.24101 55.69101 42.79101 43.23101 101.08101
##
    [99] 106.64101 74.29101
```

#Step5: Plotting the variables

```
hist(bhargav1$Runs.Scored,main = "HISTOGRAM of Runs Scored")
```

HISTOGRAM of Runs Scored



```
plot(bhargav1$Century.Number,bhargav1$Runs.Scored,main = "Plot")
```

Plot

