

***EDS IA ASSIGNMENT-2  
(STATEMENT FORMATION)***

***NAME-AISHU SINHA***

***ROLL NO-306***

***DIVISON-C***

***PRN-202201060068***

## DATASET:-

S.No.	Score	Dismissed	Captain	Player of	Against	Position	Innings	Test	Strike Rat	Venue	City	H/A	Date	Result
1	119	No	No	Yes	England	6	4	2		Old Traffic	Manchest	Away	#####	Drawn
2	148	No	No	No	Australia	6	2	3		Sydney Cr	Sydney	Away	#####	Drawn
3	114	Yes	No	No	Australia	4	2	5		WACA Grc	Perth	Away	#####	Lost
4	111	Yes	No	No	South Afri	4	2	2		Wanderer	Johannes	Away	11/26/19	Drawn
5	165	Yes	No	Yes	England	4	1	2		M. A. Chic	Chennai	Home	#####	Won
6	104	No	No	No	Sri Lanka	4	3	2		Sinhalese	Colombo	Away	7/27/199	Won
7	142	Yes	No	No	Sri Lanka	4	1	1		K. D. Sing	Lucknow	Home	1/18/199	Won
8	110	Yes	No	Yes	Australia	2	1		84.61	R. Premac	Colombo	Neutral	#####	Won
9	115	Yes	No	Yes	New Zeala	2	2		84.55	IPCL Sport	Vadodara	Home	10/28/19	Won
10	105	Yes	No	No	West Indi	2	1		78.35	Sawai Ma	Jaipur	Home	#####	Won
11	179	Yes	No	No	West Indi	4	1	2		Vidarbha	Nagpur	Home	#####	Drawn
12	112	No	No	Yes	Sri Lanka	2	2		104.67	Sharjah C	Sharjah	Neutral	#####	Won
13	127	No	No	Yes	Kenya	2	2		92.02	Barabati	Cuttack	Home	2/18/199	Won
14	137	Yes	No	No	Sri Lanka	2	1		100	Feroz Sha	New Delhi	Home	#####	Lost
15	100	Yes	No	No	Pakistan	2	1		90.09	Padang	Singapore	Neutral	#####	Lost
16	118	Yes	No	Yes	Pakistan	2	1		84.28	Sharjah C	Sharjah	Neutral	4/15/199	Won
17	122	Yes	No	No	England	4	3	1		Edgbaston	Birmingham	Away	#####	Lost
18	177	Yes	No	No	England	4	1	3		Trent Brid	Nottingha	Away	#####	Drawn
19	110	Yes	Yes	No	Sri Lanka	2	1		79.71	R. Premac	Colombo	Away	8/28/199	Lost
20	114	Yes	Yes	Yes	South Afri	1	1		90.47	Wankhed	Mumbai	Home	12/14/19	Won
21	169	Yes	Yes	No	South Afri	5	2	2		Newlands	Cape Tow	Away	#####	Lost
22	104	Yes	Yes	Yes	Zimbabwe	1	1		107.21	Willowmo	Benoni	Neutral	#####	Won
23	117	Yes	Yes	Yes	New Zeala	2	2		85.4	M. Chinna	Bangalore	Home	5/14/199	Won
24	143	Yes	Yes	No	Sri Lanka	4	1	1		R. Premac	Colombo	Away	#####	Drawn
25	139	Yes	Yes	No	Sri Lanka	4	2	2		Sinhalese	Colombo	Away	#####	Drawn
26	148	Yes	Yes	No	Sri Lanka	5	1	3		Wankhed	Mumbai	Home	#####	Drawn
27	155	No	No	Yes	Australia	4	3	1		M. A. Chic	Chennai	Home	#####	Won
28	177	Yes	No	No	Australia	4	1	3		M. Chinna	Bangalore	Home	3/25/199	Lost
29	100	Yes	No	Yes	Australia	2	2		112.35	Green Par	Kannur	Home	#####	Won

## **STATEMENT'S:-**

1. Create a function to calculate the batting average for each match.
2. Implement a sorting algorithm to arrange the matches based on the batting average in descending order.
3. Write a program to find the highest score achieved against each opponent team.
4. Create a function to calculate the percentage of matches won for each team.
5. Implement a search algorithm to find the matches where the player was dismissed after scoring a century.
6. Write a program to calculate the run rate for each match.
7. Create a function to identify the top 5 venues with the highest average scores.
8. Implement a data visualization tool to display the batting performance over time.
9. Write a program to calculate the average score for matches played in each year.
10. Create a function to determine the number of matches won consecutively by a team.
11. Implement a search algorithm to find the matches where the player was named Player of the Match in a winning cause.
12. Write a program to find the number of matches won in each city.
13. Create a function to calculate the strike rate in the first innings versus the second innings.
14. Implement a data analysis tool to identify any correlation between the player's score and the match result.
15. Write a program to find the longest streak of matches without being dismissed.
16. Create a function to calculate the percentage of matches won after batting first.
17. Implement a search algorithm to find the matches where the player scored a century and had the highest strike rate.
18. Write a program to calculate the average score for matches played against each opponent team.
19. Create a function to determine the batting performance in home matches versus away matches.
20. Implement a statistical analysis tool to identify any outliers in the batting score.

