[3]:	<pre>#having a glance ipl.head() id season</pre>	at first f	ive record			s_decision result dl_	applied wir	_by_runs win_by	_wicko+-	layer of	n venue	umpire1	
	0 1 2017 Hyderal	2017-	Sunrisers Hyderabad Mumbai I	Royal Challengers Bangalore Rising Pune Supergiant	Royal Challengers Bangalore Rising Pune Supergiant	s_decision result dl_ field normal field normal	O Sunrisers Hyderabad Rising Pune Supergiant	_ by_runs win_by 35	_wickets p	Vuvraj Singh	Rajiv Gandhi International Stadium, Uppal Maharashtra Cricket Association	AY Dandekar A Nand Kishore	
		jkot 2017- 04-07	Gujarat Lions Rising Pune Supergiant	Kolkata Knight Riders Kings XI Punjab	Kolkata Knight Riders Kings XI Punjab	field normal	Kolkata 0 Knight Riders 0 Kings XI Punjab	0	10	CA Lynn GJ Maxwell	Stadium Holkar Cricket	Nitin Menon	Sh
5]:	4 5 2017 Bangal	04-06	Royal Challengers Bangalore	Delhi Daredevils	Royal Challengers Bangalore	bat normal	Royal 0 Challengers Bangalore	15	0	KM Jadhav	M v Chinnaswamy Stadium	NaN	
5]: 6]:	ipl.shape (636, 18) #Getting the freq ipl['player_of_ma	uency of m	ost man o	f the matc									
1	CH Gayle YK Pathan DA Warner AB de Villiers SK Raina AD Mascarenhas	18 16 15 15 14	LIICS ()										
	GD McGrath BCJ Cutting SA Yadav RJ Harris Name: player_of_ma	1 1 1 1 1 ttch, Lengt	with most	t man of t		ds							
7]:	<pre>ipl['player_of_ma CH Gayle YK Pathan DA Warner AB de Villiers SK Raina</pre>	18 16 15 15			coii awari								
	RG Sharma G Gambhir MS Dhoni AM Rahane MEK Hussey Name: player_of_ma	14 13 13 12 12 atch, dtype		man	ne mator	S							
3]:	YK Pathan DA Warner AB de Villiers SK Raina	18 16 15 15	e_counts()		match awards								
9]: 9]:	SK Raina Name: player_of_ma list(ipl['player_ ['CH Gayle', 'YK F	of_match']	.value_cou			Raina']							
0]:	<pre>#making a bar plo plt.figure(figsiz plt.bar(list(ipl[plt.show()</pre>	e=(8,5))					yer_of_match'].value	_counts()[0:5]),color=	'g')			
	17.5 - 15.0 - 12.5 - 10.0 -												
	7.5 - 5.0 - 2.5 -												
1]:	#getting the freq ipl['result'].val	YK Pathan uency of rue_counts(DA Warner esult colu)	AB de Villie	ers SK Raina								
_	normal 626 tie 7 no result 3 Name: result, dtyp #finding out the ipl['toss_winner'	numbers of	toss wins unts()	s by each	team								
1	Mumbai Indians Kolkata Knight Rid Delhi Daredevils Royal Challengers Kings XI Punjab Chennai Super King	lers Bangalore	85 78 72 70 68 66										
	Rajasthan Royals Deccan Chargers Sunrisers Hyderaba Pune Warriors Gujarat Lions Kochi Tuskers Kera Rising Pune Superg Rising Pune Superg	id ila jiants jiant	63 43 35 20 15 8 7 6										
3]: [Name: toss_winner, #Extracting the r batting_first=ipl #looking at the h	dtype: ir ecords whe [ipl['win_	t64 re a team		ing first								
4]: 4]: _	#looking at the h batting_first.hea id season 0 1 2017 Hyder	city date	team1 Sunrisers Hyderabad	Povol	Challengers	oss_decision result o	II_applied winner wi Sunrisers Hyderabad	n_by_runs win_l 35	oy_wickets	player_of_mate	Rajiv Gandh Internationa Stadium	hi al AY n, Dandekar	
	4 5 2017 Bang	2017	Royal Challengers Bangalore		Royal Challengers Bangalore Rising Pune	bat normal	Royal O Challengers Bangalore Delhi Daredevils	15 97	0	KM Jadh	Uppa Nav Chinnaswam Stadiur Maharashtra Cricke Association	M NaN m NaN ra AY Dandekar	
	13 14 2017 Ko	04-11 0lkata 2017- 04-15 Delhi 2017- 04-15	Kolkata Knight Riders Delhi Daredevils	Supergiant	Supergiant Sunrisers Hyderabad Delhi	field normal	Daredevils Kolkata Knight Riders Delhi Daredevils	17 51	0	RV Uthap	Stadiur Stadiur Ppa Ede Garden	en AY ns Dandekar	
5]:	<pre># MAKING A HISTOG plt.figure(figsiz plt.hist(batting_ plt.title('Distri plt.xlabel('Runs' plt.show()</pre>	RAM e=(5,5)) first['win bution of	_by_runs']										
	plt.show()	ibution of rur	ns										
	80 - 60 - 40 -												
	20 -	60 80 10 Runs	0 120 140										
-	#Finding out the batting_first['wi Mumbai Indians Chennai Super King	number of nner'].val	ue_counts 47 46		after batting a	first							
	Kings XI Punjab Kolkata Knight Rid Royal Challengers Rajasthan Royals Sunrisers Hyderaba Delhi Daredevils Deccan Chargers Pune Warriors	lers Bangalore ad	46 32 31 30 23 23 21 18 6										
	Pune Warriors Rising Pune Superg Kochi Tuskers Kera Rising Pune Superg Gujarat Lions Name: winner, dtyp #Making a bar plo plt.figure(figsiz	t for top	5 2 2 1	ith most	vins after t	ting first							
	#making a pie chaplt.figure(figsizplt.pie(list(battplt.show()	rt e=(7,7))	'winner']			=list(batting_firs	t['winner'].value_co	unts().keys()),autopct:	='%0.1f%%')			
8]:	30 - 20 - 10 - Mumbai Indians #making a pie cha plt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Pu Kolkata Knight Riders Royal Challengers Bangalor	rt e=(7,7)) ing_first[10.8%	'winner'].	. value_cou	Mumbai 4% Gui Koc Risii Pune	=list(batting_firs	t['winner'].value_co	unts().keys()), autopct:	='%0.1f%%')			
9]:	30 - 20 - 10 - Mumbai Indians #making a pie cha plt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Pu Kolkata Knight Riders Royal Challengers Bangalor	rt e=(7,7)) ing_first[10.8% 10.56 re Rajasthan Royal	'winner'].	Chennai Super 16. 7.3% Sunrisers Hy	Mumbai 4% Gui Koc Risii Pune Deccan Delhi Daredevils	i Indians ing Lions upergiants ing Pune Supergiant ng Pune Supergiant e Warriors Chargers	t['winner'].value_co	unts().keys()), autopct:	='%0.1f%%')			
	## Wing a pie chap plt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Put Kolkata Knight Riders #extracting those batting_second=ip #looking at the h batting_second.he id season of	rt e=(7,7)) ing_first[10.8% 10.5' re Rajasthan Royal records w l[ip1['win ead ad()) city date	'winner'] 16.0 18.0% 8.0% 8.0% team1 Mumbai	Chennai Super Chenna	Mumbai A% Air Note Compared Compar	i Indians arat Lions upergiants in luskers Kerata ng Pune Supergiant Warriors Chargers g second decision result dl_a	oplied winner win_by	_runs win_by_w		er_of_match	venue u Maharashtra Cricket	umpire1	
	### Mumbai Indians #making a pie chaplt.figure(figsizplt.pie(list(battplt.show()) Kings XI Put Kolkata Knight Riders #extracting those batting_second=ip #looking at the hatting_second.he id season 1 2 2017 Put 2 3 2017 Raj	rt e=(7,7)) ing_first[10.8% 10.5% re Rajasthan Royal records w l[ip1['win ead ad()) city date une 2017- 04-06 jkot 2017- 04-07	'winner'] here a tea by_wicket team1 Mumbai Indians S Gujarat Lions Rising	Chennai Super Chenna	Mumbai A% Aw Deccan Delhi Daredevils yderabad after batting	i Indians ingrat Lions opergiants of lusters Kerala on Pune Supergiant of Warriors Chargers decision result dl_appendent of the Information of	Oplied winner win_by Rising O Pune Supergiant Kolkata O Knight Riders	_runs win_by_w 0	ickets playe	er_of_match SPD Smith CA Lynn	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar	A Nand Kishore	:
]: [### Mumbai Indians #making a pie chaplt.figure(figsizplt.pie(list(battplt.show()) Kings XI Put Kolkata Knight Riders #extracting those batting_second=ip #looking at the hatting_second.he id season 1 2 2017 Put 2 3 2017 Raj	rt e=(7,7)) ing_first[10.8% 10.5% Rajasthan Royal records w l[ip1['win ead ad()) city date une 2017- 04-06 jkot 2017- 04-08 3	team1 Mumbai Indians Rising Pune Supergiant Gujarat Lions H	Chennai Super Chenna	Deccan decomposed by the supergiant with the s	i Indians arab Lions upergiants in luskers Kerala ing Pune Supergiant warriors Chargers G second decision result dl_arab field normal	pplied winner win_by Rising O Pune Supergiant Kolkata O Knight	_runs win_by_w	ickets playe	er_of_match SPD Smith	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Char Cricket Stadium Rajiv Gandhi	A Nand Kishore Nitin Menon	: CK N
	### A season #### A season ##### A season ###### A season ###################################	rt e=(7,7)) ing_first[10.8% 10.5 10.5 10.5 10.5 10.5 10.6 10.7 10.8	team1 Mumbai Indians Rising Pune Supergiant Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders	Chennai Super Chenna	Mumbai A% Deccan Delhi Daredevils yderabad Dess_winner toss_ Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians	i Indians arat Lions opergiants in luskers Kerala ing Pune Supergiant Warriors Chargers Gecond decision result dl_ap field normal field normal field normal field normal	Oplied winner win_by Rising O Pune Supergiant Kolkata O Knight Riders O Kings XI Punjab	_runs win_by_w 0 0	ickets playe	er_of_match SPD Smith CA Lynn GJ Maxwell	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Holkar Cricket Stadium Char Cricket Stadium Uppal Wankhede	A Nand Kishore Nitin Menon AK audhary Sha Ashmukh	SECK NA
]: [30 - 20 - 10 - 10 - Mumbai Indians #making a pie cha plt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Pu Kolkata Knight Riders **Royal Challengers Bangalor #uoking at the h batting_second=ip #looking at the h batting_second.he id season 1 2 2017 Pu 2 3 2017 Raj 3 4 2017 Indi 5 6 2017 Hyderal 6 7 2017 Mum #making a histogr plt.figure(figsiz plt.hist(batting_ plt.show()) 70 -	rt e=(7,7)) ing_first[10.8% 10.5 10.5 10.5 10.5 10.5 10.6 10.7 10.8	team1 Mumbai Indians Rising Pune Supergiant Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders	Chennai Super Chenna	Mumbai A% Deccan Delhi Daredevils yderabad Dess_winner toss_ Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians	i Indians arat Lions opergiants in luskers Kerala ing Pune Supergiant Warriors Chargers Gecond decision result dl_ap field normal field normal field normal field normal	Oplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad	_runs win_by_w 0 0 0	ickets played 7 10 6	er_of_match SPD Smith CA Lynn GJ Maxwell Rashid Khan	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Holkar Cricket Stadium Char Cricket Stadium Uppal Wankhede	A Nand Kishore Nitin Menon AK audhary Sha Ashmukh	um SCK Na
9]: [Mumbai Indians #making a pie chaplt.figure(figsizplt.pie(list(battplt.show()) Kings XI Pu Kolkata Knight Riders Kolkata Knight Riders #extracting those batting_second.he id season #making a histogr plt.figure(figsizplt.hist(batting_plt.show()) #making a histogr plt.figure(figsizplt.hist(batting_plt.show())	rt e=(7,7)) ing_first[10.8% 10.5 10.5 10.5 10.5 10.5 10.6 10.7 10.8	team1 Mumbai Indians Rising Pune Supergiant Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders	Chennai Super Chenna	Mumbai A% Deccan Delhi Daredevils yderabad Dess_winner toss_ Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians	i Indians arat Lions opergiants in luskers Kerala ing Pune Supergiant Warriors Chargers Gecond decision result dl_ap field normal field normal field normal field normal	Oplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad	_runs win_by_w 0 0 0	ickets played 7 10 6	er_of_match SPD Smith CA Lynn GJ Maxwell Rashid Khan	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Holkar Cricket Stadium Char Cricket Stadium Uppal Wankhede	A Nand Kishore Nitin Menon AK audhary Sha Ashmukh	S S S S S S S S S S S S S S S S S S S
	## Waking a pie chapt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Put Kolkata Knight Riders Kolkata Knight Riders Kolkata Knight Riders Kolkata Knight Riders ## Wextracting those batting_second=ip ## Looking at the hapting_second here id season 1 2 2017 Put 2 3 2017 Raj 3 4 2017 Ind 5 6 2017 Hyderal 6 7 2017 Mum ## Waking a histographt.figure(figsiz plt.show()) 70	rt e=(7,7)) ing_first[10.8% 10.5 10.5 10.5 10.5 10.5 10.6 10.7 10.8	team1 Mumbai Indians Rising Pune Supergiant Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders	Chennai Super Chenna	Mumbai A% Deccan Delhi Daredevils yderabad Dess_winner toss_ Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians	i Indians arat Lions opergiants in luskers Kerala ing Pune Supergiant Warriors Chargers Gecond decision result dl_ap field normal field normal field normal field normal	Oplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad	_runs win_by_w 0 0 0	ickets played 7 10 6	er_of_match SPD Smith CA Lynn GJ Maxwell Rashid Khan	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Holkar Cricket Stadium Char Cricket Stadium Uppal Wankhede	A Nand Kishore Nitin Menon AK audhary Sha Ashmukh	S S S S S S S S S S S S S S S S S S S
	#making a pie cha plt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Pu Kolkata Knight Riders Royal Challengers Bangalor #extracting those batting_second=ip #looking at the h batting_second.he id season 1 2 2017 Pu 2 3 2017 Raj 3 4 2017 Ind 5 6 2017 Hyderal 6 7 2017 Mum #making a histogri plt.figure(figtsing plt.show()) 70 60 60 60 60 60 60 60 60 60 60 60 60 60	rt e=(7,7)) ing_first[10.8% 10.8% 10.8% 10.5 Te Rajasthan Royal records w 1[ip1['win ead ad()) city date une 2017- 04-06 ikot 2017- 04-07 ore 2017- 04-09 abai 2017- 04-09	team1 Mumbai Indians S Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders quency of n_by_wicker	Chennai Super Chenna	Mumbai Deccan Delhi Daredevils yderabad Dess_winner toss_d Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Deccan of wick Salance And the patting And	i Indians and Lion Supergiants in Juskers Kerala ing Pune Supergiant warriors Chargers decision result dl_a field normal field normal field normal field normal field normal kets	Oplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad	_runs win_by_w 0 0 0	ickets played 7 10 6	er_of_match SPD Smith CA Lynn GJ Maxwell Rashid Khan	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Holkar Cricket Stadium Char Cricket Stadium Uppal Wankhede	A Nand Kishore Nitin Menon AK audhary Sha Ashmukh	S S S S S S S S S S S S S S S S S S S
]: []: []: [### Waking a pie chap plt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Put Kolkata Knight Riders Kolkata Knight Riders Royal Challengers Bangalor ## Wextracting those batting_second=ip #looking at the hatting_second.he id season	rt e=(7,7)) ing_first[injab losw losw records w lipl['win ead ad()) city date une 2017- 04-06 ikot 2017- 04-06 ibai 2017- 04-09 am for free e=(7,7)) second['win less less	team1 Mumbai Indians S Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders quency of n_by_wickers 46 44 42 41	Chennai Super Chenna	Mumbai Deccan Delhi Daredevils yderabad Dess_winner toss_d Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Deccan of wick Salance And the patting And	i Indians and Lion Supergiants in Juskers Kerala ing Pune Supergiant warriors Chargers decision result dl_a field normal field normal field normal field normal field normal kets	Oplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad	_runs win_by_w 0 0 0	ickets played 7 10 6	er_of_match SPD Smith CA Lynn GJ Maxwell Rashid Khan	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Holkar Cricket Stadium Char Cricket Stadium Uppal Wankhede	A Nand Kishore Nitin Menon AK audhary Sha Ashmukh	S S S S S S S S S S S S S S S S S S S
]: []: []: [## Waking a pie cha plt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Pu Kolkata Knight Riders Kolkata Knight Riders Royal Challengers Bangalor #extracting those batting_second=ip #looking at the hatting_second.he id season 1 2 2017 Pu 2 3 2017 Rai 3 4 2017 Ind 5 6 2017 Hyderal 6 7 2017 Mum #making a histogriplt.figure(figsiz plt.figure(figsiz plt.show()) 70	rt e=(7,7)) ing_first[ling_first[ling_fi	team1 Mumbai Indians S Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders quency of n_by_wickers 46 44 42	Chennai Super Chenna	Mumbai Deccan Delhi Daredevils yderabad Dess_winner toss_d Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Deccan of wick Salance And the patting And	i Indians and Lion Supergiants in Juskers Kerala ing Pune Supergiant warriors Chargers decision result dl_a field normal field normal field normal field normal field normal kets	Oplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad	_runs win_by_w 0 0 0	ickets played 7 10 6	er_of_match SPD Smith CA Lynn GJ Maxwell Rashid Khan	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Holkar Cricket Stadium Char Cricket Stadium Uppal Wankhede	A Nand Kishore Nitin Menon AK audhary Sha Ashmukh	S S S S S S S S S S S S S S S S S S S
]: []: []: []: []: []: []: []: [### Waking a pie chap plt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Pu Kolkata Knight Riders Kolkata Knight Riders Royal Challengers Bangalor #extracting those batting_second=ip #looking at the hatting_second.he id season 1 2 2017 Pu 2 3 2017 Rai 3 4 2017 Ind 5 6 2017 Hyderal 6 7 2017 Mum #making a histogr plt.figure(figsiz plt.figure(figsiz plt.show()) 70	rt e=(7,7)) ing_first[team1 Mumbai Indians S Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders quency of n_by_wicker 46 44 42 41 38 36 33 18 12 11 6 5 4 3	Chennai Super Chenna	Mumbai Ain All Ain	i Indians arathing supergiants of pune Supergiant warriors Chargers decision result dl_arate field normal field normal field normal field normal second ting second	Oplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad	runs win_by_w 0 0 0 0 0	ickets played 7 10 6 9	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue und Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium Stadium Holkar Cricket Stadium Uppal Wankhede Stadium Designation of the Stadium Stadium Stadium Designation of the Stadium Stadium Stadium Stadium Designation of the Stadium St	A Nand Kishore Nitin Menon Cl AK audhary Sha Shmukh Nitin Menon Cl	CK N
	## Waking a pie chapt. Show() Kings XI Put show() Kings XI Put show() Kings XI Put show() Kings XI Put show() Kings XI Put show() #extracting those batting_second=ip #extracting those batting_second=ip #looking at the hatting_second-ip #looking at the hatting_second-i	rt e=(7,7)) ing_first[team1 Mumbai Indians S Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders quency of n_by_wicker 46 44 42 41 38 36 33 18 12 11 6 5 4 3	Chennai Super Chenna	Mumbai Ain All Ain	i Indians arathing supergiants of pune Supergiant warriors Chargers decision result dl_arate field normal field normal field normal field normal second ting second	Poplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0	ickets played 7 10 6 9	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue und Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium Stadium Holkar Cricket Stadium Uppal Wankhede Stadium Designation of the Stadium Stadium Stadium Designation of the Stadium Stadium Stadium Stadium Designation of the Stadium St	A Nand Kishore Nitin Menon Cl AK audhary Sha Shmukh Nitin Menon Cl	CK N
	### Wextracting those batting_second=ip #looking at the hatting_second-ip #looking at the hatting_second-he id season 1 2 2017 Pro 2 3 2017 Rai 3 4 2017 Ind 5 6 2017 Hyderal 6 7 2017 Mum #making a histogr plt.hist(batting_plt.show()) 70	rt e=(7,7)) ing_first[team1 Mumbai Indians S Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders quency of n_by_wicker 46 44 42 41 38 36 33 18 12 11 6 5 4 3	Chennai Super Chenna	Mumbai Ain All Ain	i Indians arathing supergiants of pune Supergiant warriors Chargers decision result dl_arate field normal field normal field normal field normal second ting second	Poplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0	ickets played 7 10 6 9	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue und Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium Stadium Holkar Cricket Stadium Uppal Wankhede Stadium Designation of the Stadium Stadium Stadium Designation of the Stadium Stadium Stadium Stadium Designation of the Stadium St	A Nand Kishore Nitin Menon Cl AK audhary Sha Shmukh Nitin Menon Cl	ams
	### Wing a pie cha plt.figure(figsiz plt.pie(list(batt plt.show()) Kings XI Pu Kolkata Knight Riders Kolkata Knight Riders Royal Challengers Bangalor ##extracting those batting_second=ip #looking at the hatting_second.he id season 1 2 2017 Pu 2 3 2017 Rai 3 4 2017 Ind 5 6 2017 Hyderal 6 7 2017 Mum #making a histogr plt.hist(batting_plt.show()) 70	rt e=(7,7)) ing_first[team1 Mumbai Indians S Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders quency of n_by_wicker 46 44 42 41 38 36 33 18 12 11 6 5 4 3	Chennai Super Chenna	Mumbai Ain All Ain	i Indians arathing supergiants of pune Supergiant warriors Chargers decision result dl_arate field normal field normal field normal field normal second ting second	Poplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0	ickets played 7 10 6 9	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue und Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium Stadium Holkar Cricket Stadium Uppal Wankhede Stadium Designation of the Stadium Stadium Stadium Designation of the Stadium Stadium Stadium Stadium Designation of the Stadium St	A Nand Kishore Nitin Menon Cl AK audhary Sha Shmukh Nitin Menon Cl	CK N
	#making a pie cha plt.figure(figsiz plt.pie(list(batt) plt.show() Kings XI Pu Kolkata Knight Riders Royal Challengers Bangalor #extracting those batting_second=ip #looking at the h batting_second.he id season 1 2 2017 Pu 2 3 2017 Rai 3 4 2017 Ind 5 6 2017 Hyderal 6 7 2017 Mum #making a histogr plt.figure(figsiz plt.hist(batting_plt.show()) 70	rt le=(7,7)) ing_first[ling_first[ling_f	winner'] winner'] land a lan	Chennai Super Chenna	Mumbai Deccan Delhi Daredevils yderabad Dess_winner toss_d Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Aumbers of wich S=30) After batting After battin	i Indians are proposed and services are pure Supergiant and pure	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Shmukh Nitin Menon Cl	ams
	#making a pie cha plt.figure(figsiz plt.pie(list(batt) plt.show() Kings XI Pu Kolkata Knight Riders Royal Challengers Bangalor #extracting those batting_second=ip #looking at the h batting_second.he id season 1 2 2017 Pu 2 3 2017 Rai 3 4 2017 Ind 5 6 2017 Hyderal 6 7 2017 Mum #making a histogr plt.figure(figsiz plt.hist(batting_plt.show()) 70	rt e=(7,7)) ing_first[injab i	winner'] winner'] land a lan	Chennai Super Chenna	Mumbai Deccan Delhi Daredevils yderabad Dess_winner toss_d Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Aumbers of wich S=30) After batting After battin	i Indians are proposed and services are pure Supergiant and pure	Poplied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Shmukh Nitin Menon Cl	ams
	### Aking a pie cha plt.figure(figsiz plt.pie(list/batt) plt.show() ## Kolkata Knight Riders ## Kolkata Knight Riders ## A 2017	rt e=(7,7)) ing_first[injab	winner'] winner'] landians in the second s	Chennai Super Chenna	Mumbai Deccan Delhi Daredevils yderabad Dess_winner toss_ Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Dumbers of wich S=30) After batting yins after batt punts() [0:3] . kd	i Indians are proposed and services are pure Supergiant and pure	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Shmukh Nitin Menon Cl	ams
	### Aking a pie cha plt.figure(figsiz plt.pie(list/batt) plt.show() ## Kolkata Knight Riders ## Kolkata Knight Riders ## A 2017	rt e=(7,7)) ing_first[de=(7,7)) ing_first[de=(7,7)) ing_first[de=(7,7)] de=(7,7)	'winner'] 'winner'] 'here a tea by_wicket team1 Mumbai Indians S Gujarat Lions Rising Pune Supergiant Gujarat Lions H Kolkata Knight Riders quency of n_by_wicket 46 44 42 41 38 36 33 18 12 16 55 4 3 3 teams will ['winner'] Mumbai In 0% 13.6% 13.5% 3.5% 3.5% 3.5% 4.5%	Chennai Super Chenna	Mumbai Delhi Daredevils yderabad Descand Des	i Indians are proposed and services are pure Supergiant and pure	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Ashmukh Nitin Menon Cl	CK N
	### A control of the	rt e=(7,7)) ing_first[ing_first[ing_first] ing_first[ing_first[ing_first] ing_first[ing_first[ing_first[ing_first[ing_first] ing_first[ing_first[ing_first[ing_first[ing_first] ing_first[ing_first[ing_first] ing_first[ing_first[ing_first[ing_first[ing_first] ing_first[ing_	'winner'] 'winner'] here a tea by_wicker team1 Mumbai Indians Rising Pune Supergiant Gujarat Lions Kolkata Knight Riders quency of n_by_wicker 46 44 42 41 386 363 318 112 11 6 5 4 3 3 teams will Indians Roy tribution ['winner'] Mumbai In "winner'] Mumbai In "winner'] Mumbai In "winner'] "winner']	Chennai Super Chenna	Mumbai Deccan Delhi Daredevils yderabad Dess_winner toss_d after batting Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Dumbers of wich as after batting pune After batting After batt	i Indians are proposed and services are pure Supergiant and pure	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Ashmukh Nitin Menon Cl	ams N
	## A control of the c	rt re=(7,7)) ing_first[nijab nijab nijab nijab records w l[ipl['win ead ad() city date lie 2017- 04-06 ikot 2017- 04-06 ikot 2017- 04-07 ore 204-09 dat 2017- ore 04-09 dat 2017- ore e=(7,7)) second ['wi lers Bangalore second ['wi lers lers Bangalore second ['wi lers lers	'winner'] 'winner'] here a tea by_wicker team1 Mumbai Indians Rising Pune Supergiant Gujarat Lions Kolkata Knight Riders quency of n_by_wicker 46 44 42 41 386 363 318 112 11 6 5 4 3 3 teams will Indians Roy tribution ['winner'] Mumbai In "winner'] Mumbai In "winner'] Mumbai In "winner'] "winner']	Chennai Super Chenna	Mumbai Deccan Delhi Daredevils yderabad Dess_winner toss_d after batting Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Dumbers of wich as after batting pune After batting After batt	i Indians are proposed and services are pure Supergiant and pure	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Ashmukh Nitin Menon Cl	ams N
	## A control of the c	rt re(7,7)) ing_first[ling_first[ling_fi	winner 1. here a tea by_wicket team1 Mumbai Indians S Gujarat Lions H Kolkata Knight Riders quency of n_by_wicket 46 444 41 386 333 18 12 11 65 4 3 3 teams will ['winner': Winner': Win	Chennai Super Chenna	Bangalore Kings Delhi Daredevils viderabad Descant Deccant Dethi Daredevils viderabad Dess_winner toss_ Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Descant Annual Color Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Annual Color Annual Color Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Ris	i Indians are proposed and services are pure Supergiant and pure	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Ashmukh Nitin Menon Cl	ams
	### A control of the	ret re= (7,7)) ing_first[Injab	winner 1. here a tea by_wicket team1 Mumbai Indians S Gujarat Lions H Kolkata Knight Riders quency of n_by_wicket 46 444 41 386 333 18 12 11 65 4 3 3 teams will ['winner': Winner': Win	Chennai Super Chenna	Bangalore Kings Delhi Daredevils viderabad Descant Deccant Dethi Daredevils viderabad Dess_winner toss_ Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Descant Annual Color Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Annual Color Annual Color Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Ris	i Indians are proposed and services are pure Supergiant and pure	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Ashmukh Nitin Menon Cl	ams
	Mumbai Indians #making a pie cha plt.figure(figsiz plt.pie(list(batt plt.show()) Kolkata Knight Riders Royal Challengers Bangalor #atoking at the h batting_second=ip #looking at the h batting_second-he id season 1 2 2017 Pr 2 3 2017 Ra 3 4 2017 Ind 5 6 2017 Hyderal 6 7 2017 Mum #making a histogr plt.figure(fatigsiz plt.figure(fatigsiz plt.show()) 70	rt te=(7,7)) ing_first[10.8% 10.8% 10.5% 10.5% 10.5% 10.6%	winner 1. here a tea by_wicket team1 Mumbai Indians S Gujarat Lions H Kolkata Knight Riders quency of n_by_wicket 46 444 41 386 333 18 12 11 65 4 3 3 teams will ['winner': Winner': Win	Chennai Super Chenna	Bangalore Kings Delhi Daredevils viderabad Descant Deccant Dethi Daredevils viderabad Dess_winner toss_ Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Descant Annual Color Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Annual Color Annual Color Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Ris	i Indians are proposed and services are pure Supergiant and pure	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Ashmukh Nitin Menon Cl	ams
	Mumbai Indians #making a pie cha plt.figure(figstz plt.pie(list(batt) plt.show() Kalkata Knight Riders Royal Challengers Bangalor #extracting those batting_second=1p #looking at the h batting_second.he id season 1 2 2017 Pro 2 3 2017 Ran 3 4 2017 Indi 5 6 2017 Hyderal 6 7 2017 Mum #making a histogr plt.show() #making a histogr plt.show() 70	rt re=(7,7)) ing_first[loss Rajasthan Royal records w lipl['win ead ad() city date une 2017- 04-06 dat 2017- 04-07 ore 2017- 04-08 am for free e=(7,7)) second['win alariants e=: int64 t for top e=(7,7)) ing_second re liants e: int64 t for top e=(7,7)) ing_second re liants e: int64 t for top e=(7,7)) ing_second re liants e: int64 t for top e=(7,7)) ing_second re liants e: int64 t for top e=(7,7)) ing_second re liants e: int64 t for top e=(7,7)) ing_second re liants e: int64 t for top e=(7,7)) ing_second re liants e: int64 t for top e=(7,7) re for dis e=(12,4% lants) e=(11,4%	winner 1. here a tea by_wicket team1 Mumbai Indians S Gujarat Lions H Kolkata Knight Riders quency of n_by_wicket 46 444 41 386 333 18 12 11 65 4 3 3 teams will ['winner': Winner': Win	Chennai Super Chenna	Bangalore Kings Delhi Daredevils viderabad Descant Deccant Dethi Daredevils viderabad Dess_winner toss_ Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Sunrisers Hyderabad Mumbai Indians Descant Annual Color Rising Pune Supergiant Kolkata Knight Riders Kings XI Punjab Annual Color Annual Color Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Supergiant Annual Color Rising Pune Ris	i Indians are proposed and services are pure Supergiant and pure	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Ashmukh Nitin Menon Cl	ams
	Mumbal Indians **Marking a pie cha plt.figure(figstz) plt.pie(list(batt) plt.show() **Kings XI Pu **Royal Challengers Bangalor **Acking at the h batting_second=ip **Alooking at the h batting_second he **Alooking at the figure(figsiz) plt.figure(figsiz) plt.show() **Marking a histogr plt.figure(figsiz) plt.show() **Mumbal Indians **Royal Challengers **Balasthan Royals **Kings XI Pun **Morking at the n solid season **Alooking at the n	ret e=(7,7)) ing_first[injab	'winner'] 'winner'] 'winner'] team1 Mumbai In Mumbai In Kolkata Kinight Riders quency of n_by_wicker aliang quency of n_by_wicker for a tea by_wicker team1 Mumbai In Kolkata Kinight Riders quency of n_by_wicker aliang yithiner' yithiner' winner' winner' winner' winner' winner' matches plan aliang matches plan matches	Chennai Super Chenna	Mumbai An after batting Delhi Daredevils Viderabad Descant Delhi Daredevils Viderabad An after batting Rising Pune Supergiant Kolkata Kings XI Punjab Sunrisers Hyderabad Mumbai Indians An after batting Supergiant Sumbers of wich Sumbar Supergiants Sumbar Sup	i Indians application supergiants in pure supergiants in pure supergiant supergiants in pure supergiants. Supergiants in pure supergiants in pure supergiants in supergiants in supergiants in supergiants in supergiants. Supergiants in supergiants	polied winner win_by Rising Pune Supergiant Kolkata Knight Riders Sunrisers Hyderabad Mumbai Indians	runs win_by_w 0 0 0 0 0 0 alue_counts()	7 10 6 9 4	er_of_match SPD Smith CA Lynn GJ Maxwell N Rana	venue u Maharashtra Cricket Association Stadium Saurashtra Cricket Association Stadium Holkar Cricket Stadium Gandhi International Stadium, Uppal Wankhede Stadium	A Nand Kishore Nitin Menon Cl AK audhary Sha Ashmukh Nitin Menon Cl	ams