We simulated the match ball by ball.
We applied on 10 matches and we got around 70% accurate

Match Number	Teams	Actual Score	Actual Overs	Prdicted Score	Predicted Overs	Actual win	Predicted win	Prediction
53	KXIP	172/7	20	123	20	RPS	RPS	1
	RPS	173/6	20	124	18			
54	MUM	172/8	20	146	20	GL	GL	1
	GL	173/4	17.5	148	20			
55	KKR	171/6	20	143	20	KKR	KKR	1
	SRH	149/8	20	119	20			
56	DD	138/8	20	114	15.6	RCB	RCB	1
	RCB	139/4	18.1	115	13.3			
57	GL	158/10	20	168	20	RCB	GL	0
	RCB	159/6	18.2	135	20			
58	SRH	162/8	20	130	20	SRH	KKR	0
	KKR	140/8	20	132	18.2			
59	GL	162/7	20	120	20	SRH	SRH	1
	SRH	163/6	19.2	123	18.5			
60	SRH	208/7	20	161	20	SRH	SRH	Ī
	RCB	200/7	20	147	20			

Here accuracy is 6/8 = 0.75

We have repeatedly ran the simulation function on the same match and printing the winner team index.

Here out of 20 it predicted 18 correctly.

```
In [25]: #match 55
    t1bat=["RV Uthappa","G Gambhir","C Munro","MK Pandey","YK Pathan","JO Holder","Shakib Al Hasan","SA Yadav","AS Rajpoot", "SP Narin t2bat=['S Dhawan','DA Warner ','NV Ojha ','Yuvraj Singh','KS Williamson','DJ Hooda','MC Henriques','KV Sharma', 'B Kumar','BB Sran 'Mustafizur Rahman']
    t1bowl=["YK Pathan","AS Rajpoot","Shakib Al Hasan","SP Narine","AS Rajpoot","SP Narine","JO Holder","C Munro","JO Holder","Kuldeep t2bowl=["B Kumar","BB Sran","BB Sran","KS Williamson","DJ Hooda","KV Sharma","DJ Hooda","KV Sharma","MC Henriques","Must

In [27]: #actual win team 0
    prediction=[]
    for i in range(20):
        prediction.append(predict_score(t1bat,t2bat,t1bowl,t2bowl,"Winner"))
    prediction

Out[27]: [0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0]
```

Again we are printing overs and index of the team won and scores as (team0,team1) and plotting graph for every trial

```
▶ In [119]: #actual win team 0
            #actual score (171,149)
            score_pred=[]
            win_prediction=[]
            for i in range(20):
                a=predict_score(t1bat,t2bat,t1bowl,t2bowl,"Winner")
                win prediction.append(a[0])
                score_pred.append((a[1],a[2]))
            print(win prediction)
            print(score pred)
              19.6 19.6
              19.6 19.6
              19.6 19.6
              19.6 11.4
              19.6 19.6
              19.6 19.6
              19.6 19.6
              19.6 19.6
              19.6 13.6
              19.6 19.6
              19.6 19.6
              19.6 19.6
              19.6 19.3
              19.6 19.6
              19.6 19.6
              19.6 15.1
              19.6 19.6
              19.6 15.5
              19.6 19.6
              19.6 19.6
              [0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 0]
              [(140, 135), (153, 130), (143, 109), (100, 103), (130, 93), (129, 126), (133, 127), (141, 111), (116, 117), (170, 126), (125,
              121), (133, 109), (129, 130), (151, 148), (151, 136), (123, 124), (149, 115), (130, 131), (137, 126), (119, 110)]
```

```
Out[120]: [<matplotlib.lines.Line2D at 0x1e896a6f048>, <matplotlib.lines.Line2D at 0x1e896adfda0>]

170
160
150
140
130
120
110
100
90
0.0 2.5 5.0 7.5 10.0 12.5 15.0 17.5
```

Here accuracy is 15/20 = 0.75