

```
In [1]: pip install PrettyTable
```

Requirement already satisfied: PrettyTable in c:\users\navna\anaconda3\anaconda\anacondadbda\lib\site-packages (3.3.0)

Requirement already satisfied: wcwidth in c:\users\navna\anaconda3\anaconda\anacondadbda\lib\site-packages (from PrettyTable) (0.2.5)

Note: you may need to restart the kernel to use updated packages.

```
In [2]: import numpy as np
import pandas as pd
from matplotlib import pyplot as plt
```

```
In [3]: def match_day():
    from datetime import date
    match_date = date(2022, 6, 28)
    print("Date of the match is",match_date)
    print("India vs Ireland")
    toss_winner = "India"
    toss_decision = "bat"
    print(toss_winner,"won the toss and decided to",toss_decision)
    Stadium = 'The Village'
    print(Stadium)
```

```
match_day()
```

Date of the match is 2022-06-28

India vs Ireland

India won the toss and decided to bat

The Village

```
In [4]: def IND_Commentary():
        from prettytable import PrettyTable
        Ind = PrettyTable()
        Ind.field_names = ['Over', 'Bowler', 'Runs', 'Wickets']
        Ind.add_row([1, 'Mark Adair', 8, 0])
        Ind.add_row([2, 'Josh Little', 5, 0])
        Ind.add_row([3, 'Mark Adair', 8, 1])
        Ind.add_row([4, 'Craig Young', 9, 0])
        Ind.add_row([5, 'Josh Little', 9, 0])
        Ind.add_row([6, 'Craig Young', 15, 0])
        Ind.add_row([7, 'Gareth Delany', 4, 0])
        Ind.add_row([8, 'Conor Olphert', 8, 0])
        Ind.add_row([9, 'Gareth Delany', 15, 0])
        Ind.add_row([10, 'Andy McBrine', 16, 0])
        Ind.add_row([11, 'Josh Little', 13, 0])
        Ind.add_row([12, 'Conor Olphert', 19, 0])
        Ind.add_row([13, 'Gareth Delany', 9, 0])
        Ind.add_row([14, 'Conor Olphert', 20, 0])
        Ind.add_row([15, 'Gareth Delany', 19, 0])
        Ind.add_row([16, 'Craig Young', 6, 0])
        Ind.add_row([17, 'Mark Adair', 18, 1])
        Ind.add_row([18, 'Josh Little', 11, 2])
        Ind.add_row([19, 'Craig Young', 5, 2])
        Ind.add_row([20, 'Mark Adair', 8, 1])
        print(Ind)
```

IND_Commentary()

Over	Bowler	Runs	Wickets
1	Mark Adair	8	0
2	Josh Little	5	0
3	Mark Adair	8	1
4	Craig Young	9	0
5	Josh Little	9	0
6	Craig Young	15	0
7	Gareth Delany	4	0
8	Conor Olphert	8	0
9	Gareth Delany	15	0
10	Andy McBrine	16	0
11	Josh Little	13	0
12	Conor Olphert	19	0
13	Gareth Delany	9	0
14	Conor Olphert	20	0
15	Gareth Delany	19	0
16	Craig Young	6	0
17	Mark Adair	18	1
18	Josh Little	11	2
19	Craig Young	5	2
20	Mark Adair	8	1

```

In [5]: def India_Scorecard():
    print("India _XI:\n")
    playing_11=['Sanju Samson','Ishan Kishan','Deepak Hooda','Suryakumar Yadav','Hardik Pandya(c & wk)',
                'Dinesh Karthik', 'Axar Patel ', 'Harshal Patel', 'Bhuvneshwar Kumar','Umran Malik',
                'Ravi Bishnoi']

    for i in playing_11:
        print(i)

    print("\nSCORECARD")
    print("*** India Batting ***")

    player=['Sanju Samson','Ishan Kishan','Deepak Hooda','Suryakumar Yadav' ,'Hardik Pandya',
            'Dinesh Karthik','Axar Patel','Harshal Patel','Bhuvneshwar Kumar']
    runs=[77,3,104,15,15,0,0,0,1]
    bolls=[42,5,57,5,9,1,1,1,1]
    fours=[9,0,9,2,2,0,0,0,0]
    sixes=[4,0,6,1,0,0,0,0,0]
    strike_rate=[183.33,60.00,182.46,300.00,166.67,0.00,0.00,0.00,100.00]
    ind={"Batting":player,"R":runs,"B":bolls,"4s":fours,"6s":sixes,"S/R":strike_rate}
    ind=pd.DataFrame(ind)
    print(ind)

    print("")
    ytb=['Umran Malik','Ravi Bishnoi' ]
    print("\nYet to bat:")
    for i in ytb:
        print(i)

```

```

print("\n***IRE Bowlig***\n")
player=['Mark Adair','Josh Little','Craig Young','Gareth Delany',
        'Conor Olphert','Andy McBrine']
overs=[4.0,4.0,4.0,4.0,3.0,1.0]
M=[0,0,0,0,0,0]
Runs=[42,38,35,43,47,16]
wickets=[3,2,2,0,0,0]
econ=[10.50,9.50,8.75,10.75,15.67,16.00]
ire_bowl={"Bowling":player,"O":overs,"M":M,"R":Runs,"W":wickets,"Econ":econ}
ire_bowl=pd.DataFrame(ire_bowl)
print(ire_bowl)
print("")

```

```
IND_Commentary()
```

```

Buys=4
fours=sum(fours)
sixes=sum(sixes)
print("\nIND Total Fours:",fours)
print("\nIND Total Sixes:",sixes)
print("\nExtras:",sum(Runs)-sum(runs)+Buys)
print("\nTotal runs:",sum(Runs)+Buys)

```

```
# bar graph of scorecard
```

```

over = ['1','2','3','4','5','6','7','8','9','10','11','12','13','14','15','16','17','18','19','20']
runs = [8,5,8,9,9,15,4,8,15,16,13,19,9,20,19,6,18,11,5,10]
plt.figure(figsize=(18,8))
plt.bar(over,runs,color='lightblue')

```

```
plt.title("India Scorecard")
plt.xlabel("Over")
plt.ylabel("Runs")
plt.grid(True)
plt.show()

# Line chart of scorecard
over = ['1', '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20']
runs = [8, 13, 21, 30, 39, 54, 58, 66, 81, 97, 110, 129, 138, 158, 177, 183, 201, 212, 217, 225]
plt.figure(figsize=(18, 8))
plt.plot(over, runs, color='blue')
plt.title("India Scorecard")
plt.xlabel("Over")
plt.ylabel("Runs")
plt.grid(True)
plt.show()
```

India_Scorecard()

India _XI:

Sanju Samson
Ishan Kishan
Deepak Hooda
Suryakumar Yadav
Hardik Pandya(c & wk)
Dinesh Karthik
Axar Patel
Harshal Patel
Bhuvneshwar Kumar
Umar Malik
Ravi Bishnoi

SCORECARD

*** India Batting ***

	Batting	R	B	4s	6s	S/R
0	Sanju Samson	77	42	9	4	183.33
1	Ishan Kishan	3	5	0	0	60.00
2	Deepak Hooda	104	57	9	6	182.46
3	Suryakumar Yadav	15	5	2	1	300.00
4	Hardik Pandya	15	9	2	0	166.67
5	Dinesh Karthik	0	1	0	0	0.00
6	Axar Patel	0	1	0	0	0.00
7	Harshal Patel	0	1	0	0	0.00
8	Bhuvneshwar Kumar	1	1	0	0	100.00

Yet to bat:

Umran Malik

Ravi Bishnoi

IRE Bowlig

	Bowling	O	M	R	W	Econ
0	Mark Adair	4.0	0	42	3	10.50
1	Josh Little	4.0	0	38	2	9.50
2	Craig Young	4.0	0	35	2	8.75
3	Gareth Delany	4.0	0	43	0	10.75
4	Conor Olphert	3.0	0	47	0	15.67
5	Andy McBrine	1.0	0	16	0	16.00

Over	Bowler	Runs	Wickets
1	Mark Adair	8	0
2	Josh Little	5	0
3	Mark Adair	8	1
4	Craig Young	9	0
5	Josh Little	9	0
6	Craig Young	15	0
7	Gareth Delany	4	0
8	Conor Olphert	8	0
9	Gareth Delany	15	0
10	Andy McBrine	16	0
11	Josh Little	13	0

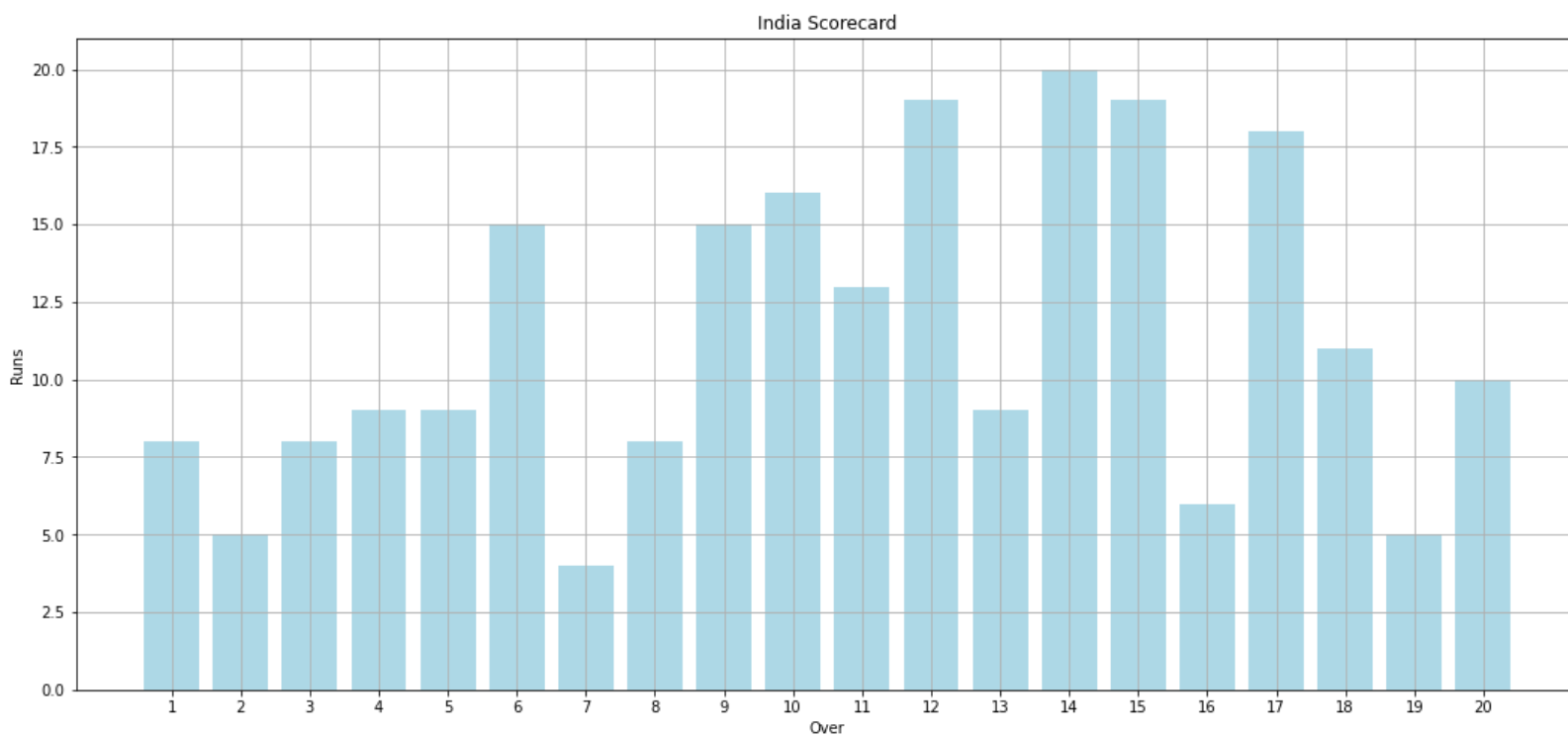
	12		Conor Olphert		19		0	
	13		Gareth Delany		9		0	
	14		Conor Olphert		20		0	
	15		Gareth Delany		19		0	
	16		Craig Young		6		0	
	17		Mark Adair		18		1	
	18		Josh Little		11		2	
	19		Craig Young		5		2	
	20		Mark Adair		8		1	
+-----+-----+-----+-----+								

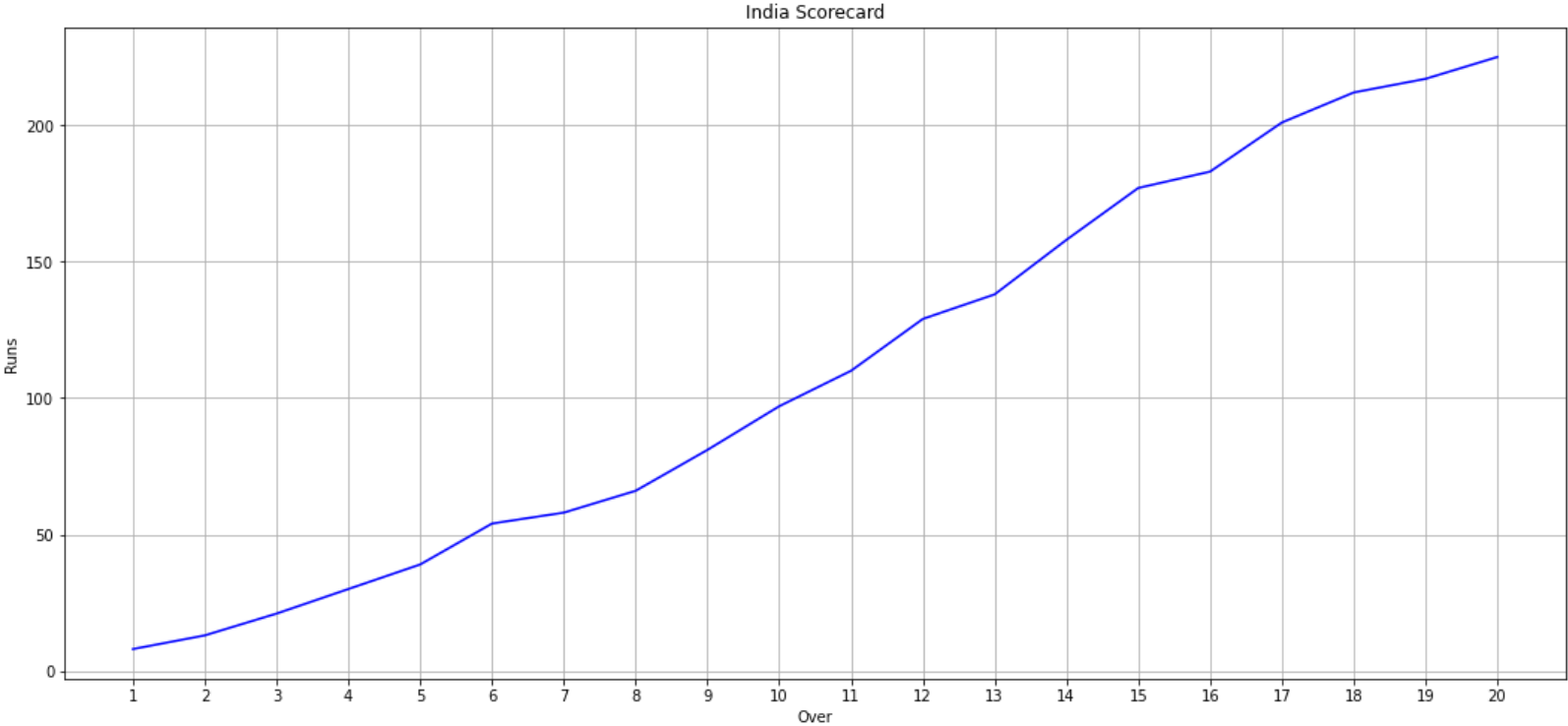
IND Total Fours: 22

IND Total Sixes: 11

Extras: 10

Total runs: 225






```
In [6]: def IRE_Commentary():
        from prettytable import PrettyTable
        Ire = PrettyTable()
        Ire.field_names = ['Over', 'Bowler', 'Runs', 'Wickets']
        Ire.add_row([1, 'Bhuvneshwar Kumar', 18, 0])
        Ire.add_row([2, 'Hardik Pandya', 8, 0])
        Ire.add_row([3, 'Bhuvneshwar Kumar', 11, 0])
        Ire.add_row([4, 'Hardik Pandya', 13, 0])
        Ire.add_row([5, 'Harshal Patel', 15, 0])
        Ire.add_row([6, 'Ravi Bishnoi', 8, 1])
        Ire.add_row([7, 'Umran Malik', 6, 1])
        Ire.add_row([8, 'Ravi Bishnoi', 7, 0])
        Ire.add_row([9, 'Umran Malik', 14, 0])
        Ire.add_row([10, 'Axar Patel', 7, 0])
        Ire.add_row([11, 'Harshal Patel', 12, 1])
        Ire.add_row([12, 'Axar Patel', 5, 0])
        Ire.add_row([13, 'Ravi Bishnoi', 11, 0])
        Ire.add_row([14, 'Umran Malik', 12, 1])
        Ire.add_row([15, 'Ravi Bishnoi', 17, 0])
        Ire.add_row([16, 'Bhuvneshwar Kumar', 10, 0])
        Ire.add_row([17, 'Harshal Patel', 14, 0])
        Ire.add_row([18, 'Bhuvneshwar Kumar', 7, 1])
        Ire.add_row([19, 'Harshal Patel', 14, 0])
        Ire.add_row([20, 'Umran Malik', 11, 0])
        print(Ire)
```

IRE_Commentary()

Over	Bowler	Runs	Wickets
1	Bhuvneshwar Kumar	18	0
2	Hardik Pandya	8	0
3	Bhuvneshwar Kumar	11	0
4	Hardik Pandya	13	0
5	Harshal Patel	15	0
6	Ravi Bishnoi	8	1
7	Umrans Malik	6	1
8	Ravi Bishnoi	7	0
9	Umrans Malik	14	0
10	Axar Patel	7	0
11	Harshal Patel	12	1
12	Axar Patel	5	0
13	Ravi Bishnoi	11	0
14	Umrans Malik	12	1
15	Ravi Bishnoi	17	0
16	Bhuvneshwar Kumar	10	0
17	Harshal Patel	14	0
18	Bhuvneshwar Kumar	7	1
19	Harshal Patel	14	0
20	Umrans Malik	11	0

```
In [7]: def Ireland_Scorecard():
    print("Ireland _XI:\n")
    playing_11=['Paul Stirling','Andrew Balbirnie (c)','Gareth Delany','Harry Tector','Lorcan Tucker(wk)',
                'George Dockrell', 'Mark Adair','Andy McBrine','Craig Young','Joshua Little',
                'Conor Olphert']

    for i in playing_11:
        print(i)

    print("\nSCORECARD")
    print("*** Ireland Batting ***")

    player=['Paul Stirling','Andrew Balbirnie ','Gareth Delany','Harry Tector','Lorcan Tucker',
            'George Dockrell', 'Mark Adair']
    runs=[40,60,0,39,5,34,23]
    bolls=[18,37,4,28,9,16,12]
    fours=[5,3,0,5,0,3,3]
    sixes=[3,7,0,0,0,3,1]
    strike_rate=[222.22,162.16,0.00,139.29,55.56,212.50,191.67]
    ire={"Batting":player,"R":runs,"B":bolls,"4s":fours,"6s":sixes,"S/R":strike_rate}
    ire=pd.DataFrame(ire)
    print(ire)

    print("")
    ytb=['Andy McBrine','Craig Young','Joshua Little','Conor Olphert' ]
    print("\nYet to bat:")
    for i in ytb:
        print(i)
```

```

print("\n***IND Bowling***\n")
player=['Bhuvneshwar Kumar', 'Hardik Pandya', 'Harshal Patel', 'Ravi Bishnoi',
        'Umran Malik', 'Axar Patel']
overs=[4.0,2.0,4.0,4.0,4.0,2.0]
M=[0,0,0,0,0,0]
Runs=[46,18,54,41,42,12]
wickets=[1,0,1,1,1,0]
econ=[11.50,9.00,13.50,10.25,10.50,6.00]
ire_bowl={"Bowling":player,"O":overs,"M":M,"R":Runs,"W":wickets,"Econ":econ}
ire_bowl=pd.DataFrame(ire_bowl)
print(ire_bowl)
print("")

IRE_Commentary()

Buys=8
fours=sum(fours)
sixes=sum(sixes)
print("\nIRE Total Fours:",fours)
print("\nIRE Total Sixes:",sixes)
print("\nExtras:",sum(Runs)-sum(runs)+Buys)
print("\nTotal runs:",sum(Runs)+Buys)

# bar graph of scorecard
over = ['1', '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20']
runs = [18,6,11,13,15,8,6,7,14,7,12,5,11,12,17,10,14,7,14,12]
plt.figure(figsize=(18,8))
plt.bar(over,runs,color='green')

```

```
plt.title("Ireland Scorecard")
plt.xlabel("Over")
plt.ylabel("Runs")
plt.grid(True)
plt.show()

# Line chart of scorecard
over = ['1', '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20']
runs = [18, 26, 37, 50, 65, 73, 79, 86, 100, 107, 119, 124, 135, 147, 164, 174, 188, 195, 209, 221]
plt.figure(figsize=(18, 8))
plt.plot(over, runs, color='green')
plt.title("Ireland Scorecard")
plt.xlabel("Over")
plt.ylabel("Runs")
plt.grid(True)
plt.show()
```

Ireland_Scorecard()

Ireland _XI:

Paul Stirling
Andrew Balbirnie (c)
Gareth Delany
Harry Tector
Lorcan Tucker(wk)
George Dockrell
Mark Adair
Andy McBrine
Craig Young
Joshua Little
Conor Olphert

SCORECARD

*** Ireland Batting ***

	Batting	R	B	4s	6s	S/R
0	Paul Stirling	40	18	5	3	222.22
1	Andrew Balbirnie	60	37	3	7	162.16
2	Gareth Delany	0	4	0	0	0.00
3	Harry Tector	39	28	5	0	139.29
4	Lorcan Tucker	5	9	0	0	55.56
5	George Dockrell	34	16	3	3	212.50
6	Mark Adair	23	12	3	1	191.67

Yet to bat:

Andy McBrine

Craig Young

Joshua Little

Conor Olphert

IND Bowlig

	Bowling	O	M	R	W	Econ
0	Bhuvneshwar Kumar	4.0	0	46	1	11.50
1	Hardik Pandya	2.0	0	18	0	9.00
2	Harshal Patel	4.0	0	54	1	13.50
3	Ravi Bishnoi	4.0	0	41	1	10.25
4	Umaran Malik	4.0	0	42	1	10.50
5	Axar Patel	2.0	0	12	0	6.00

Over	Bowler	Runs	Wickets
1	Bhuvneshwar Kumar	18	0
2	Hardik Pandya	8	0
3	Bhuvneshwar Kumar	11	0
4	Hardik Pandya	13	0
5	Harshal Patel	15	0
6	Ravi Bishnoi	8	1
7	Umaran Malik	6	1
8	Ravi Bishnoi	7	0
9	Umaran Malik	14	0
10	Axar Patel	7	0
11	Harshal Patel	12	1
12	Axar Patel	5	0

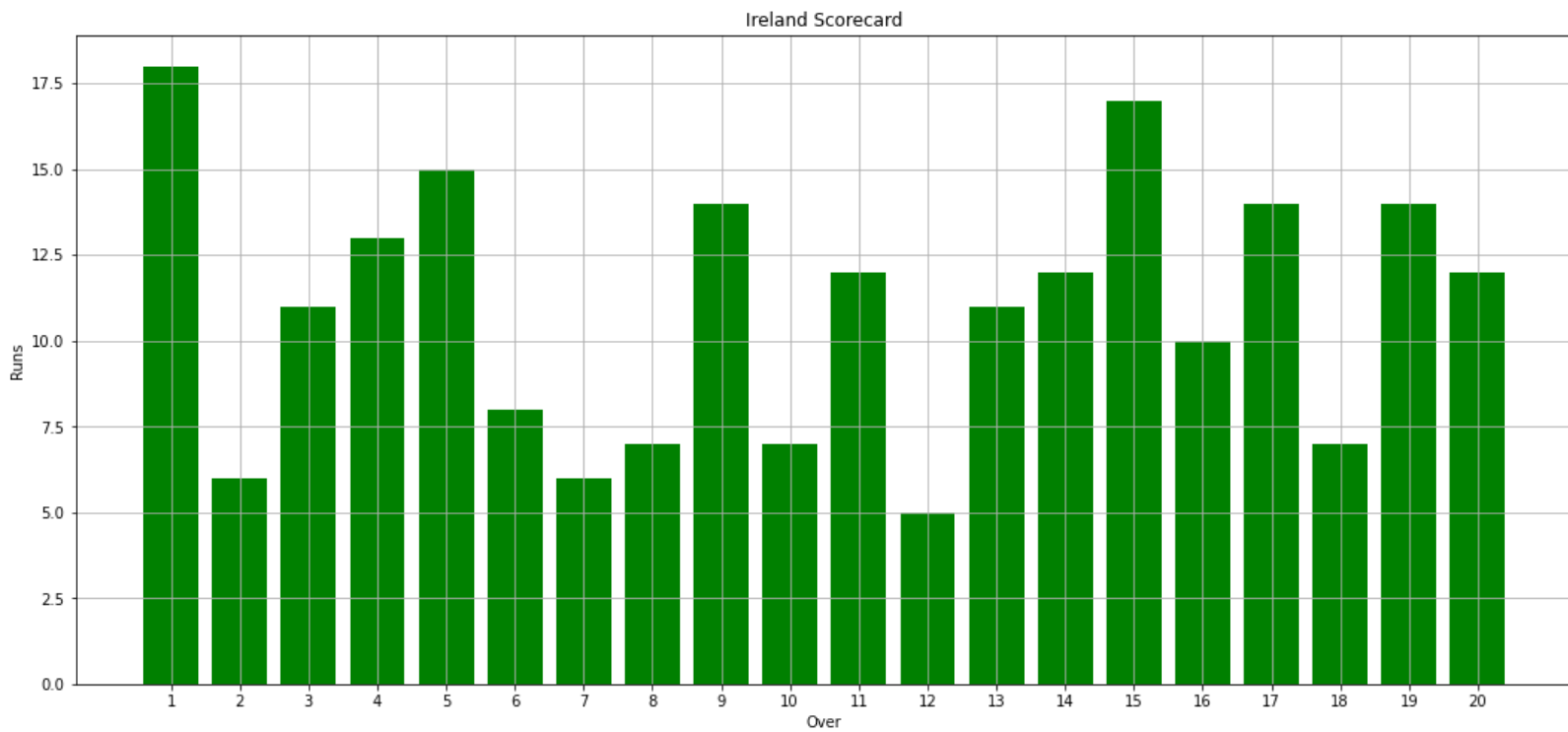
	13		Ravi Bishnoi		11		0	
	14		Umrn Malik		12		1	
	15		Ravi Bishnoi		17		0	
	16		Bhuvneshwar Kumar		10		0	
	17		Harshal Patel		14		0	
	18		Bhuvneshwar Kumar		7		1	
	19		Harshal Patel		14		0	
	20		Umrn Malik		11		0	
+-----+-----+-----+-----+								

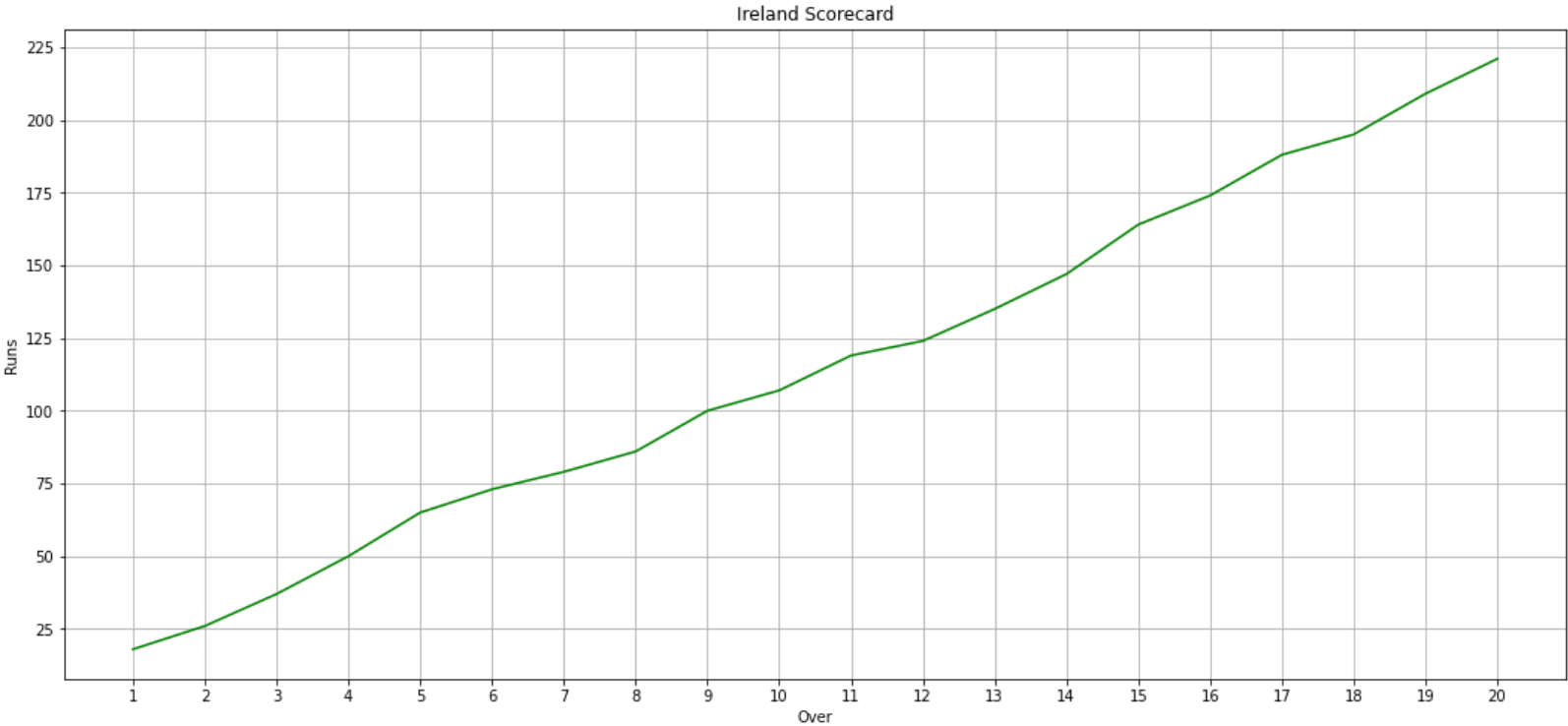
IRE Total Fours: 19

IRE Total Sixes: 14

Extras: 20

Total runs: 221






```
In [8]: def Ind_Ire_T20():  
        match_day()  
        print("\t\t\t\t\t India Vs Ireland\n")  
        print("\t\t\t 1) India\n")  
        print("\t\t\t 2) Ireland\n")  
        print("\t\t\t 0 Exit\n")
```

```
Ind_Ire_T20()
```

```
ch=int(input("->"))
```

```
if ch == 1:  
    print("India Scorecard")  
    India_Scorecard()
```

```
elif ch == 2:  
    print("Ireland Scorecard")  
    Ireland_Scorecard()
```

```
else:  
    exit()
```

Date of the match is 2022-06-28
India vs Ireland
India won the toss and decided to bat
The Village

India Vs Ireland

- 1) India
- 2) Ireland
- 0 Exit

->1

India Scorecard

India _XI:

Sanju Samson

Ishan Kishan

Deepak Hooda

Suryakumar Yadav

Hardik Pandya(c & wk)

Dinesh Karthik

Axar Patel

```
In [9]: def Ind_Ire_T20():  
        match_day()  
        print("\t\t\t\t\t India Vs Ireland\n")  
        print("\t\t\t 1) India\n")  
        print("\t\t\t 2) Ireland\n")  
        print("\t\t\t 0 Exit\n")
```

```
Ind_Ire_T20()
```

```
ch=int(input("->"))
```

```
if ch == 1:  
    print("India Scorecard")  
    India_Scorecard()
```

```
elif ch == 2:  
    print("Ireland Scorecard")  
    Ireland_Scorecard()
```

```
else:  
    exit()
```

```
Date of the match is 2022-06-28  
India vs Ireland  
India won the toss and decided to bat  
The Village
```

India Vs Ireland

1) India

2) Ireland

0 Exit

->2

Ireland Scorecard

Ireland _XI:

Paul Stirling

Andrew Balbirnie (c)

Gareth Delany

Harry Tector

Lorcan Tucker(wk)

George Dockrell

Mark Adair

In []: