```
In [1]:    #setting up working directory to import dataset
           import os
```

```
In [2]:    os.chdir("C:\\Users\\Dell\\3D Objects\\one drive\\OneDrive\\Documents\\datasets")
```

```
In [3]:    # Virat Kohli is one of the most famous cricketers in the world.
           #Here it is a dataset of all the ODI matches played by Virat Kohli from 18 August 2008 to
           #here we  analyze the performance of Virat Kohli in ODI matches.
```

```
In [4]:    import numpy as np
           import pandas as pd
           import plotly.express as px
```

```
In [5]:    data=pd.read_csv("Virat_Kohli.csv")
```

```
In [6]:    data.head()
```

Out[6]:

	Runs	BF	4s	6s	SR	Pos	Dismissal	Inns	Opposition	Ground	Start Date
0	12	22	1	0	54.54	2.0	lbw	1	v Sri Lanka	Dambulla	18-Aug-08
1	37	67	6	0	55.22	2.0	caught	2	v Sri Lanka	Dambulla	20-Aug-08
2	25	38	4	0	65.78	1.0	run out	1	v Sri Lanka	Colombo (RPS)	24-Aug-08
3	54	66	7	0	81.81	1.0	bowled	1	v Sri Lanka	Colombo (RPS)	27-Aug-08
4	31	46	3	1	67.39	1.0	lbw	2	v Sri Lanka	Colombo (RPS)	29-Aug-08

```
In [7]:    data.isnull().sum()
```
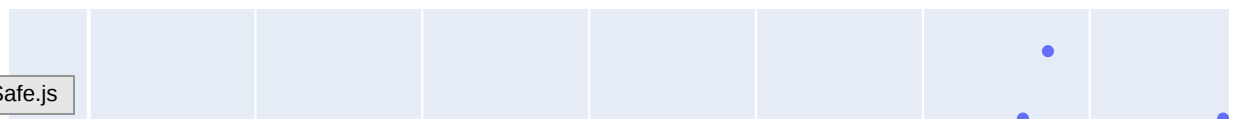
```
Out[7]:    Runs          0
           BF            0
           4s            0
           6s            0
           SR            0
           Pos           0
           Dismissal     0
           Inns          0
           Opposition    0
           Ground        0
           Start Date    0
           dtype: int64
```
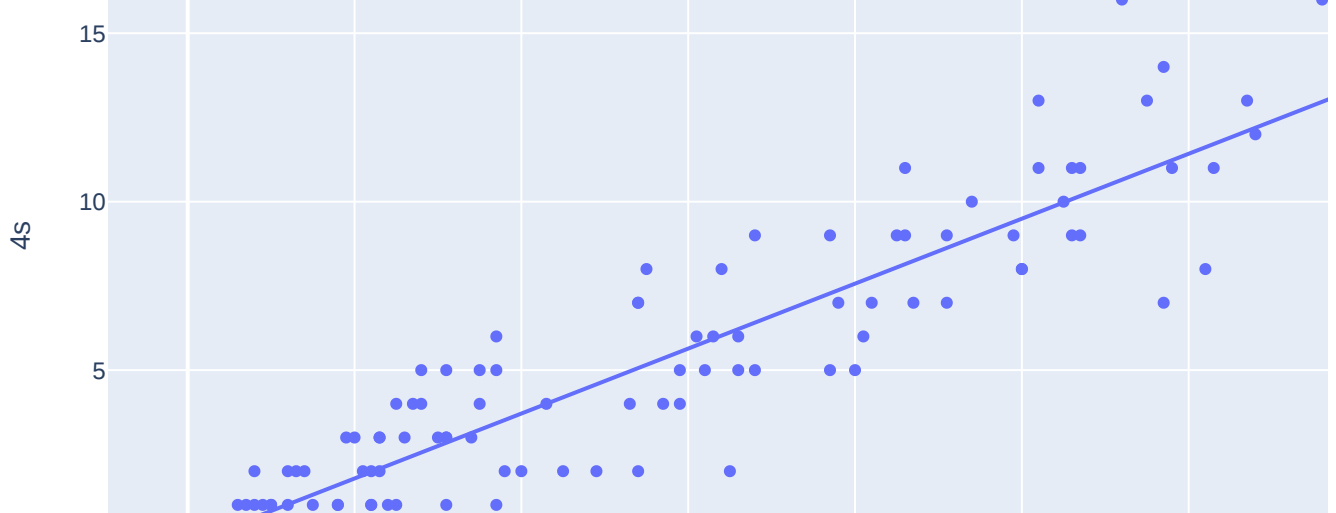
```
In [8]:    px.scatter(data_frame=data,y="4s",x="Runs",title="relationship between no of 4s in a match
```

relationship between no of 4s in a match and runs scored
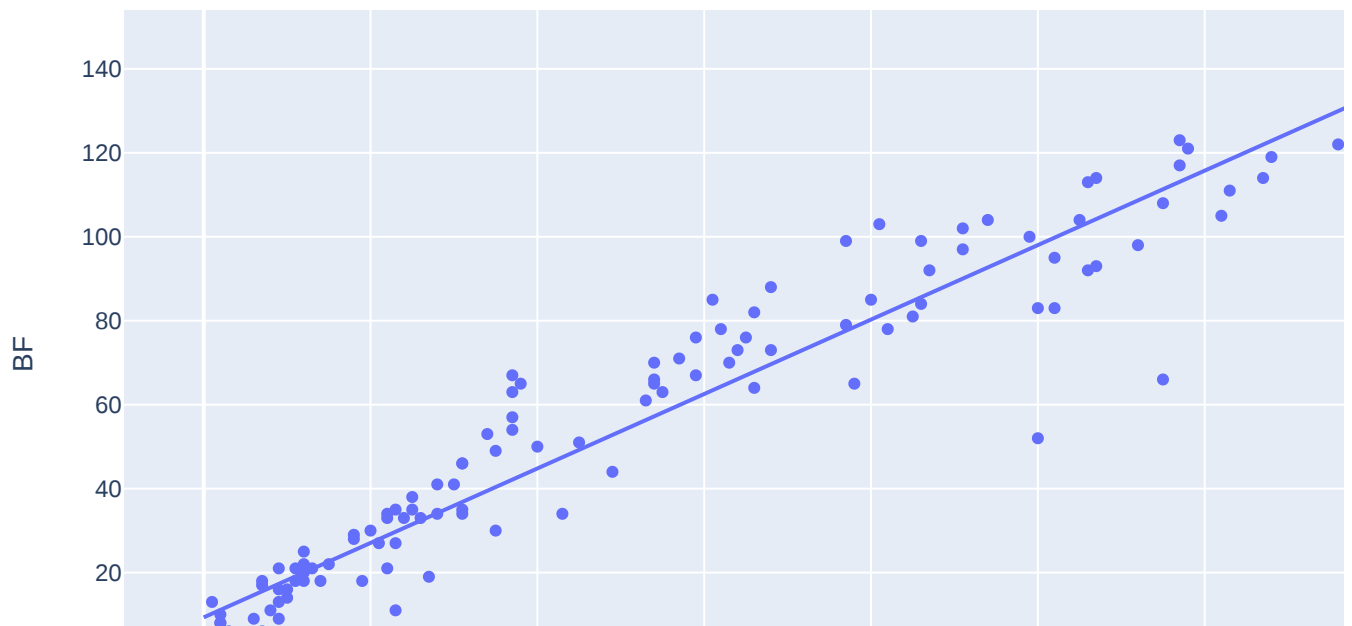
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In [9]:
```python
px.scatter(data_frame=data,y="BF",x="Runs",title="relationship between no of balls faced a
```
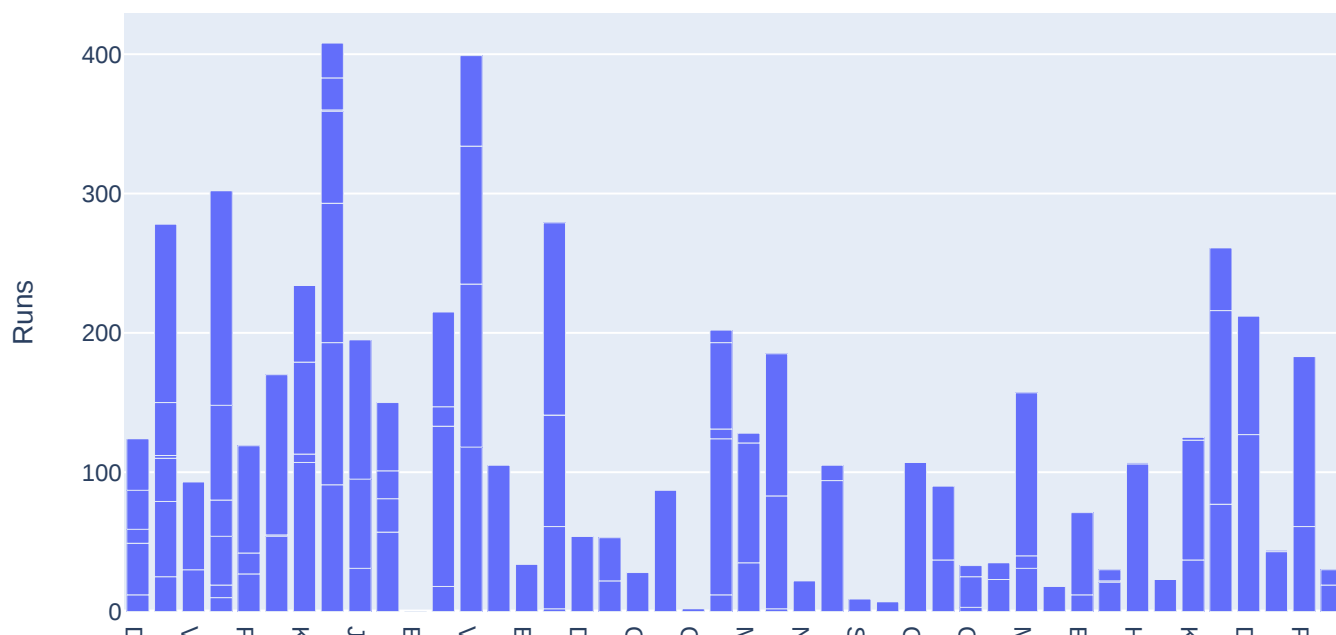
relationship between no of balls faced and runs scored

In [10]:
```python
px.bar(data_frame=data,x="Opposition",y="Runs",title="no of runs scored against a team")
```

no of runs scored against a team

In [11]:
```python
px.bar(data_frame=data,x="Ground",y="Runs",title="no of runs scored in a ground")
```

no of runs scored in a ground

```
In [12]:    #how many times virat kohli got out of the match in a particular way
            data["Dismissal"].value_counts()

Out[12]:    caught        84
            not out       17
            run out       10
            bowled        10
            lbw            9
            stumped        1
            hit wicket     1
            Name: Dismissal, dtype: int64

In [13]:    #how many runs he scored from 18th august 2008 to 22 january 2017
            data["Runs"].sum()

Out[13]:    6184

In [14]:    px.bar(data_frame=data,x="Pos",y="Runs",title="no of runs scored while batting in a positi
```
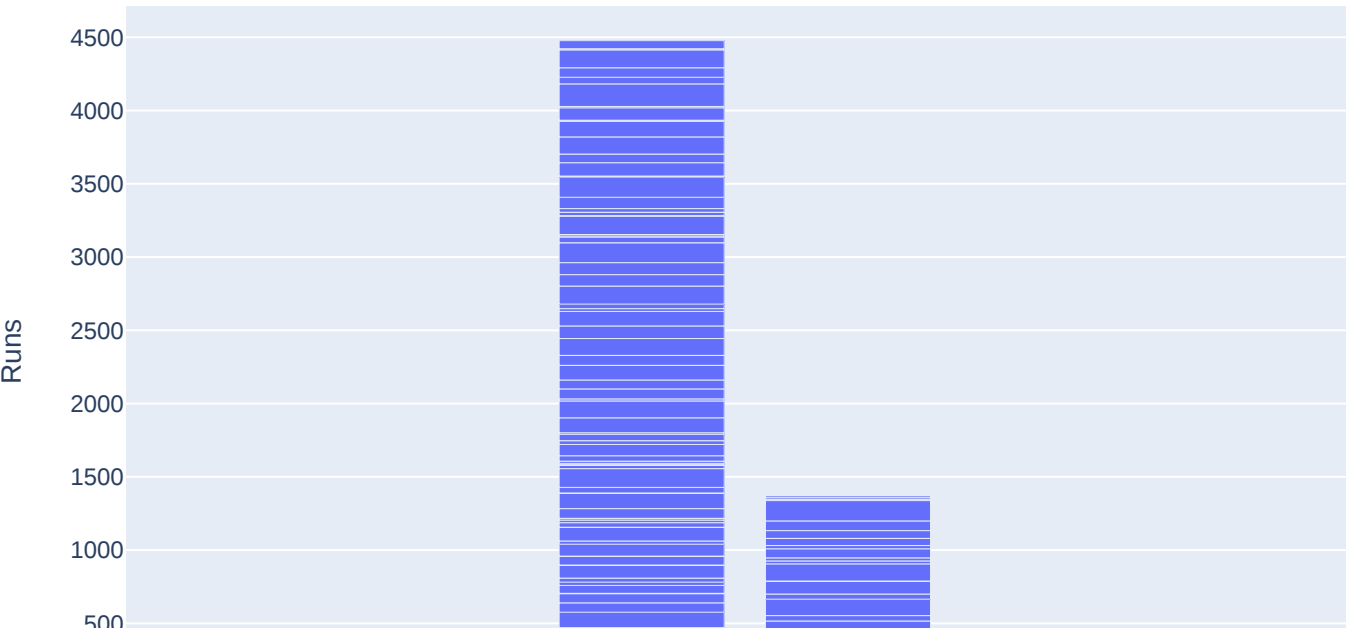
no of runs scored while batting in a position


```
In [15]:    data
```

	Runs	BF	4s	6s	SR	Pos	Dismissal	Inns	Opposition	Ground	Start Date
0	12	22	1	0	54.54	2.0	lbw	1	v Sri Lanka	Dambulla	18-Aug-08

	Runs	BF	4s	6s	SR	Pos	Dismissal	Inns	Opposition	Ground	Start Date
1	37	67	6	0	55.22	2.0	caught	2	v Sri Lanka	Dambulla	20-Aug-08
2	25	38	4	0	65.78	1.0	run out	1	v Sri Lanka	Colombo (RPS)	24-Aug-08
3	54	66	7	0	81.81	1.0	bowled	1	v Sri Lanka	Colombo (RPS)	27-Aug-08
4	31	46	3	1	67.39	1.0	lbw	2	v Sri Lanka	Colombo (RPS)	29-Aug-08
...	...	...	...	...	...	...	...	...	...	...	...
127	45	51	2	1	88.23	3.0	caught	2	v New Zealand	Ranchi	26-Oct-16
128	65	76	2	1	85.52	3.0	caught	1	v New Zealand	Visakhapatnam	29-Oct-16
129	122	105	8	5	116.19	3.0	caught	2	v England	Pune	15-Jan-17
130	8	5	2	0	160.00	3.0	caught	1	v England	Cuttack	19-Jan-17
131	55	63	8	0	87.30	3.0	caught	2	v England	Kolkata	22-Jan-17

132 rows × 11 columns

In [16]:
```python
px.bar(data_frame=data,x="Opposition",y="BF",title="no of balls faced against in a team")
```
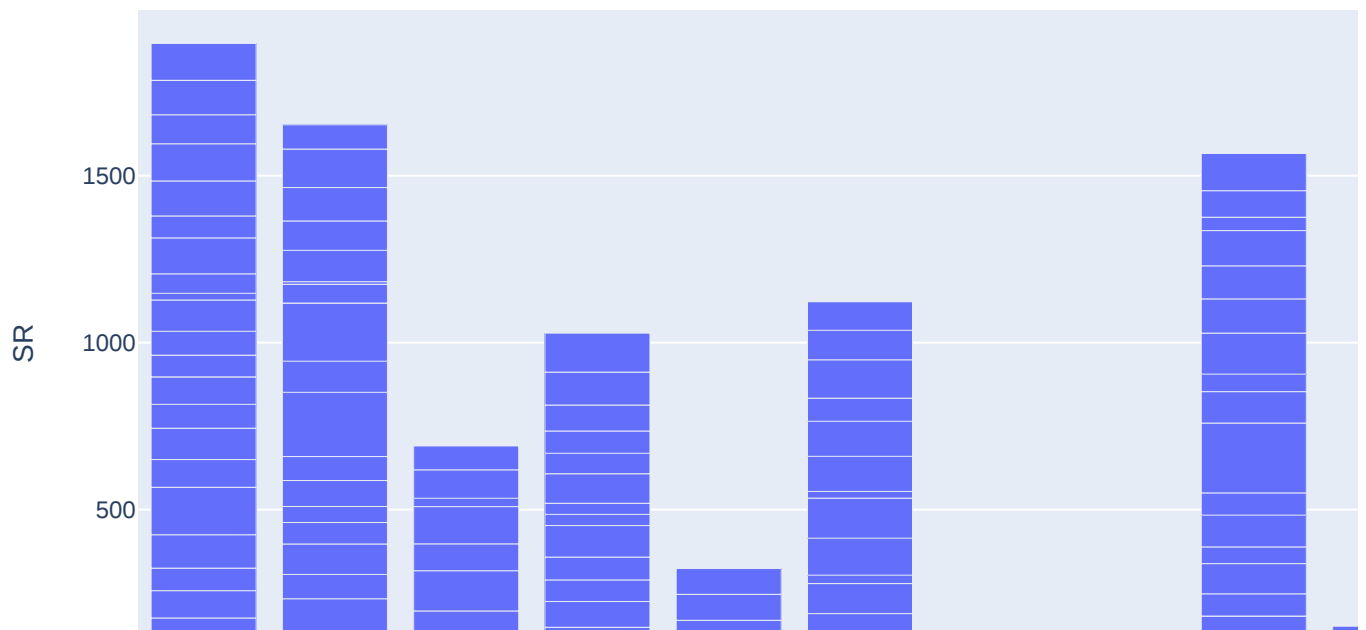
no of balls faced against in a team
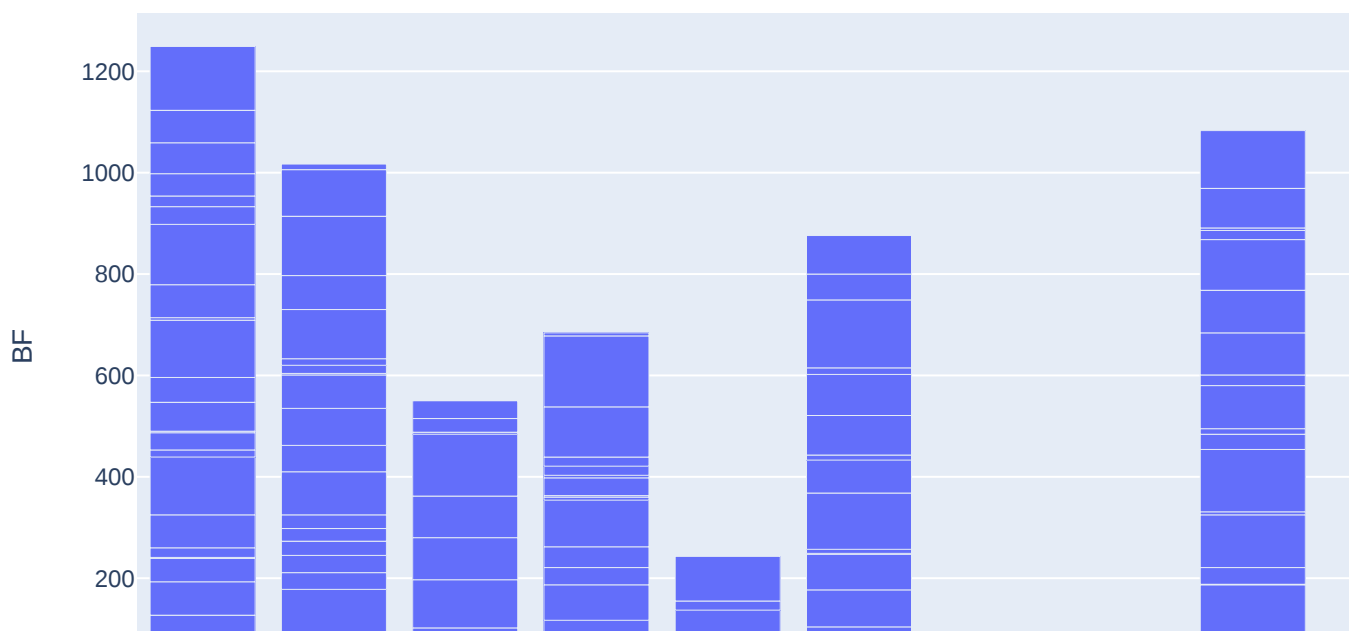
In [17]:
```python
px.bar(data_frame=data,x="Opposition",y="SR",title="no of balls faced against in a team")
```
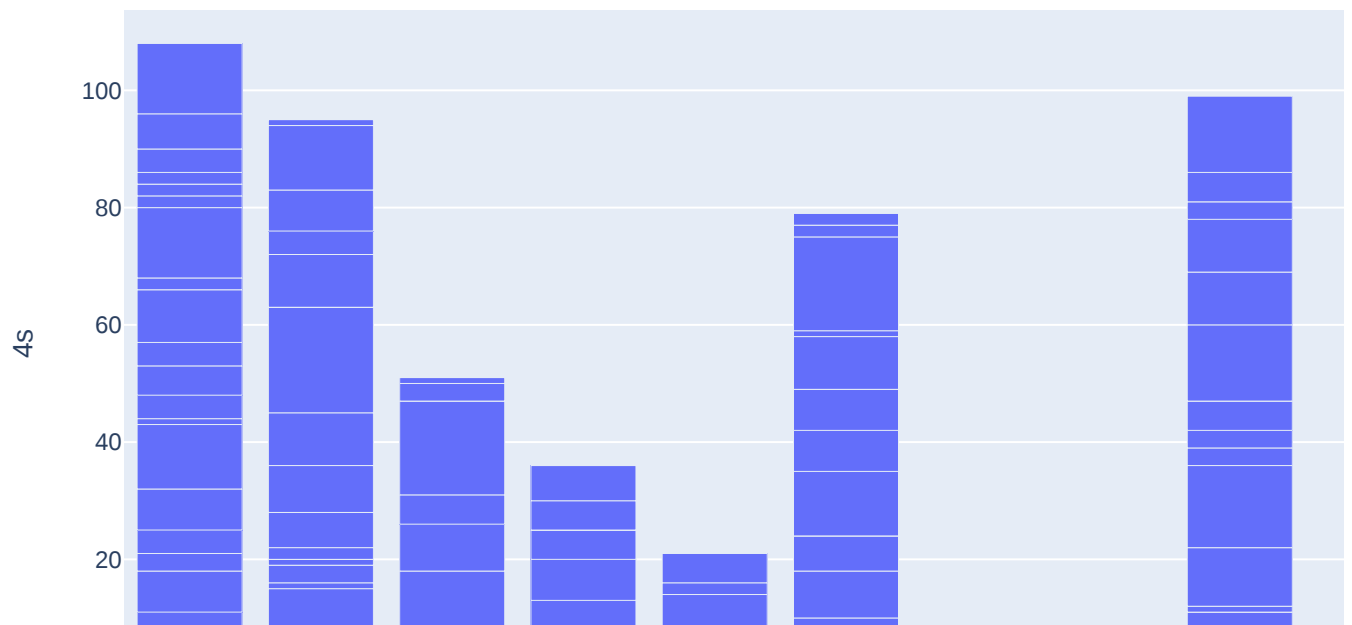
no of balls faced against in a team

```python
#avearge runs score by virat kohli
data["Runs"].mean()
```

Out[18]: 46.84848484848485

In [19]:
```python
px.bar(data_frame=data,x="Opposition",y="4s",title="no 4s scored against in a team")
```

no 4s scored against in a team
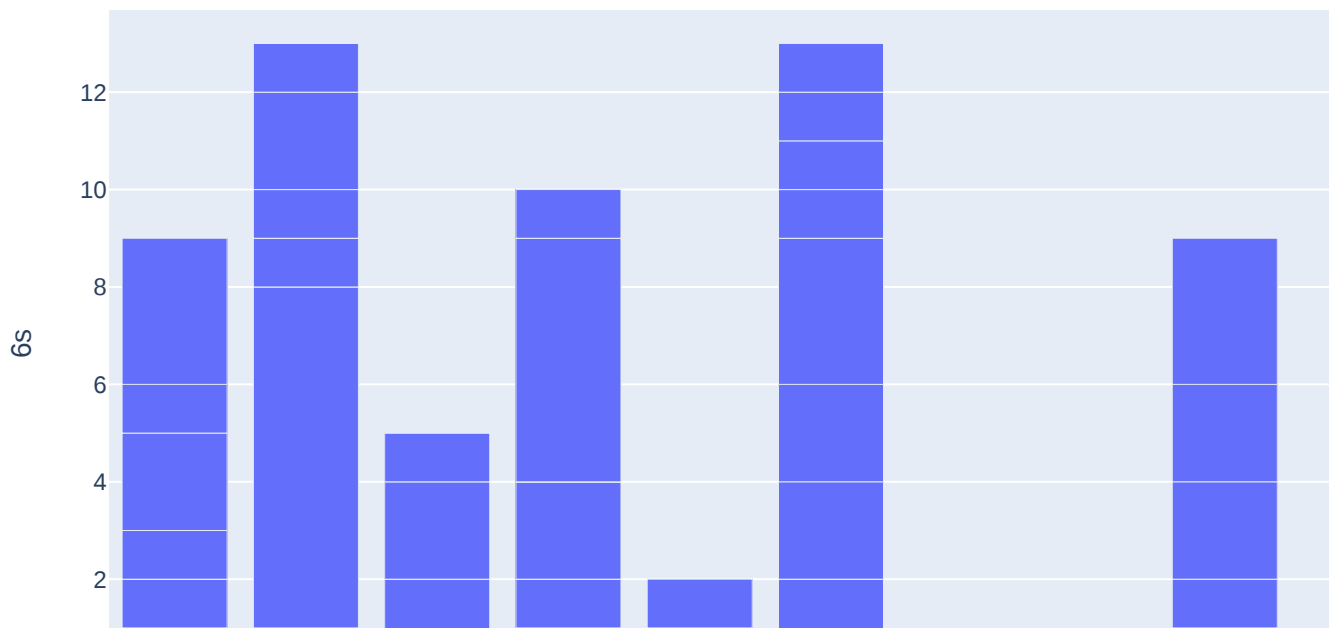

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In [20]:
```python
px.bar(data_frame=data,x="Opposition",y="6s",title="no 6s scored against in a team")
```
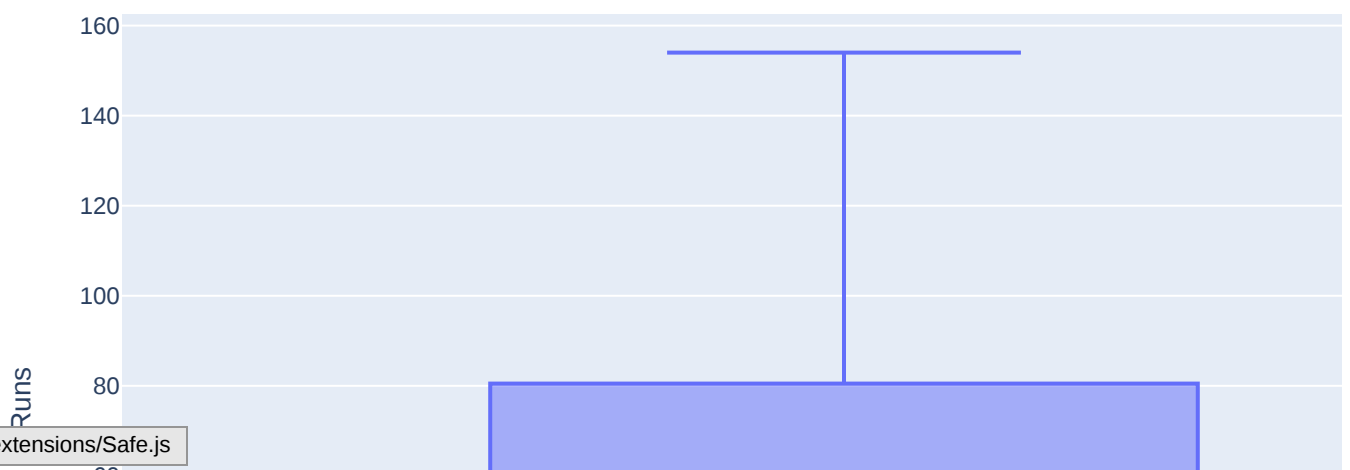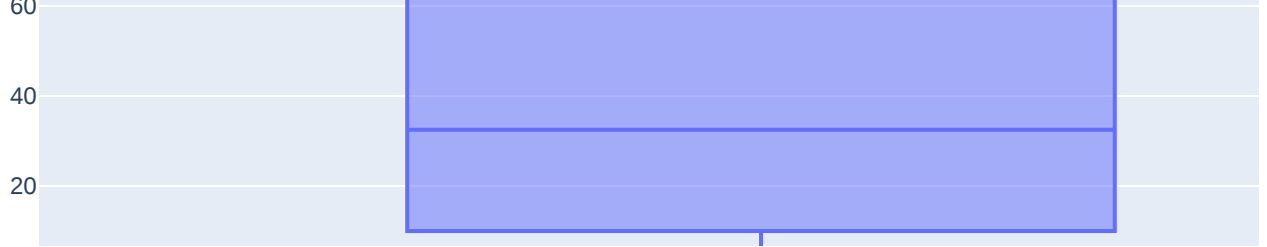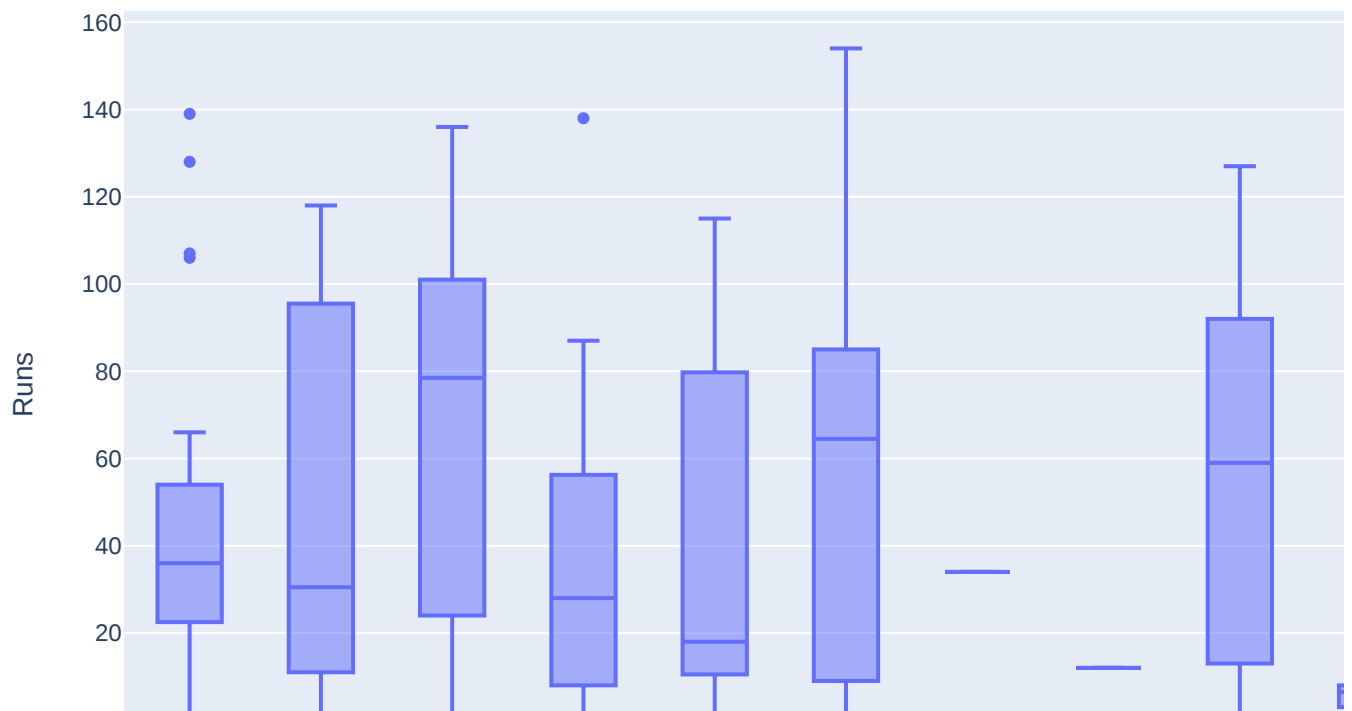
no 6s scored against in a team

In [21]:
```python
#distribution of runs scored
px.box(data_frame=data,y="Runs")
```

In [22]:
```python
#distribution of runs scored against a team
px.box(data_frame=data,y="Runs",x="Opposition")
```
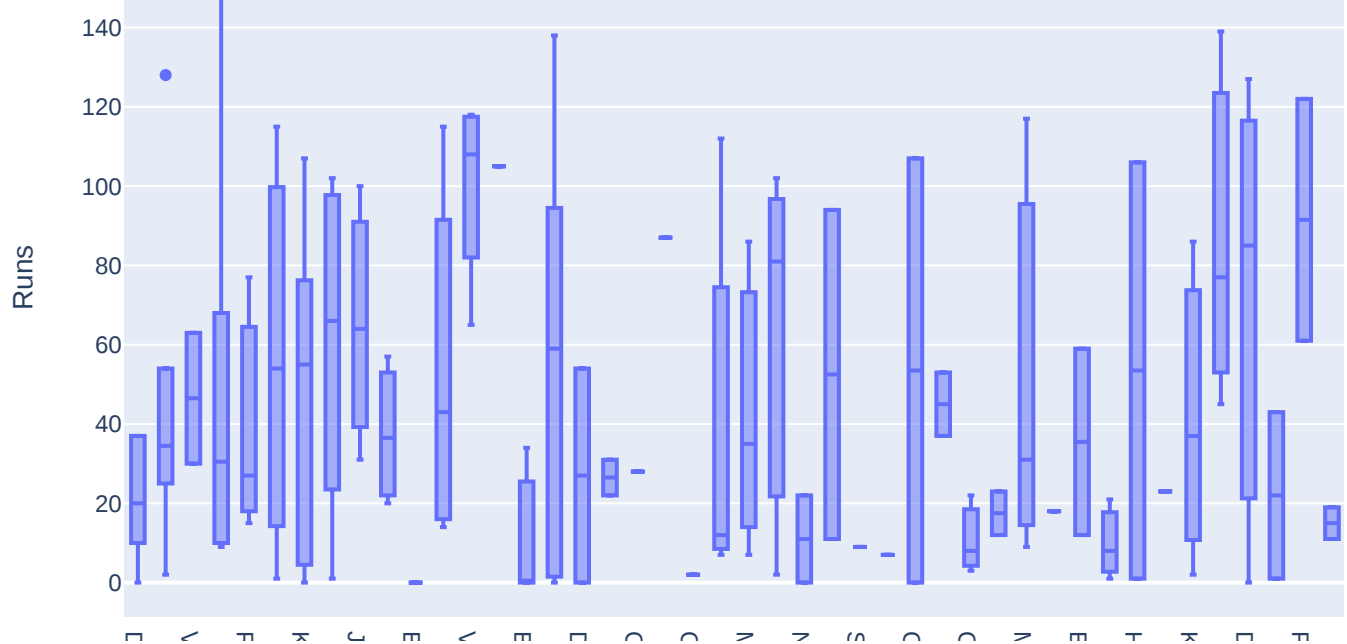

In [ ]:

In [23]:
```python
px.box(data_frame=data,y="Runs",x="Ground")
```

In [24]:
```python
#how many runs he scored against a particular team
data.groupby(['Opposition'])["Runs"].sum().sort_values(ascending=False)
```

Out[24]:
```
Opposition
v Sri Lanka       1084
v West Indies     1009
v Australia        999
v New Zealand      877
v England          830
v South Africa     558
v Bangladesh       544
v Zimbabwe         215
v Ireland           34
v Pakistan          22
v Netherlands       12
Name: Runs, dtype: int64
```

In [25]:
```python
#how many runs he scored in a ground
data.groupby(['Ground'])["Runs"].sum().sort_values(ascending=False)
```

Out[25]:
```
Ground
Dhaka              408
Visakhapatnam      399
Mohali             302
Chennai            279
Colombo (RPS)      278
Ranchi             261
Kolkata            234
Harare             215
Dharamsala         212
Delhi              202
Jaipur             195
Port of Spain      185
Pune               183
Nagpur             170
Melbourne          157
                   150
```

```
Fatullah                136
Mumbai                  128
Kochi                   125
Dambulla                124
Napier                  123
Rajkot                  119
Hambantota              107
Cardiff                 107
Canberra                106
Kingston                105
Guwahati                105
Vadodara                 93
Perth                    91
Hyderabad (Deccan)       90
Port Elizabeth           87
Wellington               82
Hamilton                 80
Brisbane                 71
Durban                   54
Johannesburg             53
Birmingham               44
Nottingham               40
Indore                   35
Bengaluru                34
Cuttack                  33
Kanpur                   30
Sydney                   30
Cape Town                28
Pallekele                23
North Sound              22
Adelaide                 18
Leeds                    13
Southampton               9
The Oval                  7
Centurion                 2
Bulawayo                  0
Name: Runs, dtype: int64
```

In [ ]: