# ILP_Data_Analysis

In [1]: ▶|
```python
import pandas as pd
import plotly.express as px
import plotly.graph_objects as go
```
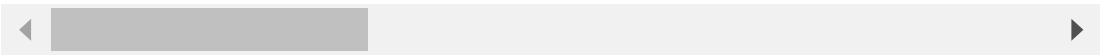
In [2]: ▶|
```python
data=pd.read_csv("IPL 2022.csv")
```

In [3]: ▶|
```python
data
```

Out[3]:

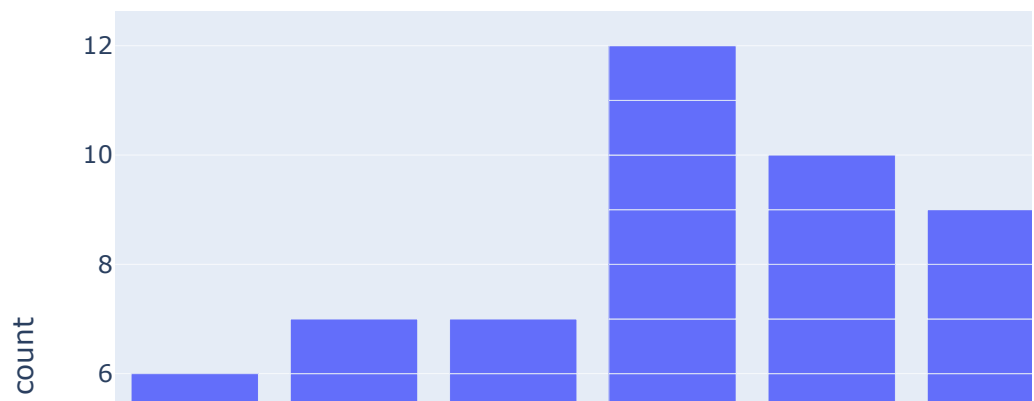| | match_id | date | venue | team1 | team2 | stage | toss_winner | toss_d |
|---|---|---|---|---|---|---|---|---|
| **0** | 1 | March 26,2022 | Wankhede Stadium, Mumbai | Chennai | Kolkata | Group | Kolkata | |
| **1** | 2 | March 27,2022 | Brabourne Stadium, Mumbai | Delhi | Mumbai | Group | Delhi | |
| **2** | 3 | March 27,2022 | Dr DY Patil Sports Academy, Mumbai | Banglore | Punjab | Group | Punjab | |
| **3** | 4 | March 28,2022 | Wankhede Stadium, Mumbai | Gujarat | Lucknow | Group | Gujarat | |
| **4** | 5 | March 29,2022 | Maharashtra Cricket Association Stadium,Pune | Hyderabad | Rajasthan | Group | Hyderabad | |
| **...** | ... | ... | ... | ... | ... | ... | ... | |
| **69** | 70 | May 22,2022 | Wankhede Stadium, Mumbai | Hyderabad | Punjab | Group | Hyderabad | |
| **70** | 71 | May 24,2022 | Eden Gardens, Kolkata | Gujarat | Rajasthan | Playoff | Gujarat | |
| **71** | 72 | May 25,2022 | Eden Gardens, Kolkata | Banglore | Lucknow | Playoff | Lucknow | |
| **72** | 73 | May 27,2022 | Narendra Modi Stadium, Ahmedabad | Banglore | Rajasthan | Playoff | Rajasthan | |
| **73** | 74 | May 29,2022 | Narendra Modi Stadium, Ahmedabad | Gujarat | Rajasthan | Final | Rajasthan | |

74 rows × 20 columns
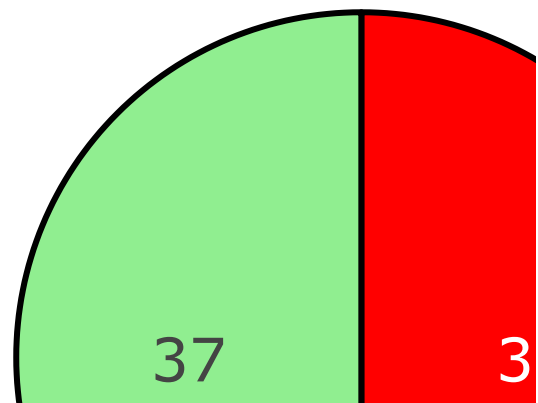
# number of matches wob by each team in ipl 2022

In [4]:  ▶| 
```
figure = px.bar(data, x= data['match_winner'], title="number of matches
figure.show()
```

number of matches wob by each team in ipl 2022
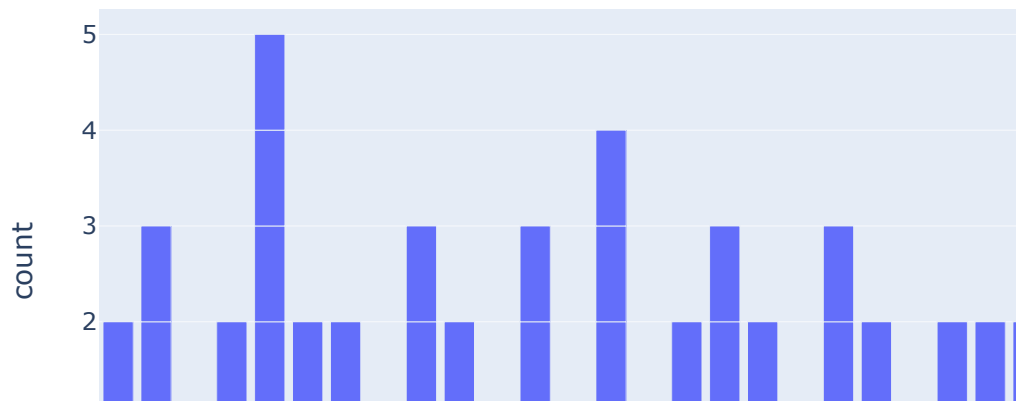
In [5]:

```python
data['won_by'] = data['won_by'].map({'Wickets':'Chasing',
                                      'Runs' : 'Defending'})
won_by = data["won_by"].value_counts()
label = won_by.index
counts=won_by.values
colors=['red','lightgreen']
fig=go.Figure(data = [go.Pie(labels=label, values = counts)])
fig.update_layout(title_text = "no of matches won by defender chasing")
fig.update_traces(hoverinfo = 'label+percent', textinfo='value',textfor
                  marker = dict(colors=colors, line=dict(color= 'black', widt
```
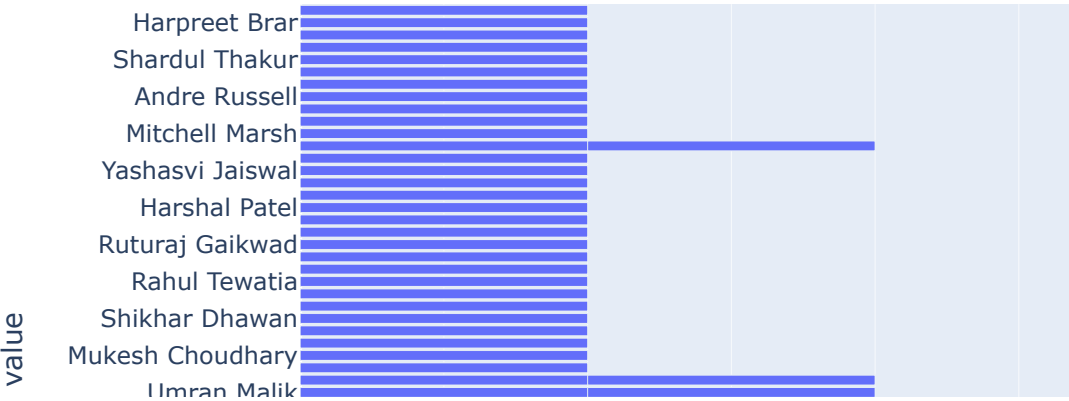
## no of matches won by defender chasing

In [6]:

```python
figure = px.bar(data, x =data["best_bowling"], title="best bowling in i
figure.show()
```
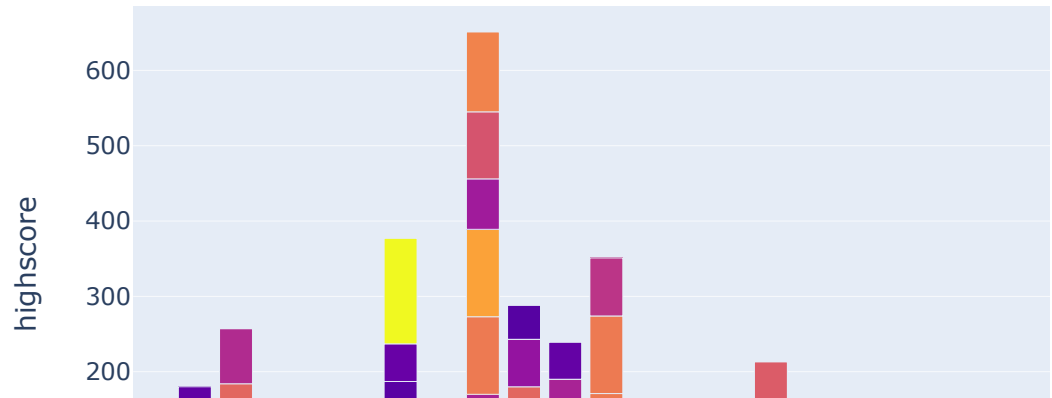
best bowling in ipl 2022

In [7]:
```python
figure = px.bar(data, x =["player_of_the_match"], title="player of he m
figure.show()
```

## player of he match in ipl 2022

In [8]:  ▶| 
```
figure = px.bar(data, x=data["top_scorer"],y=data["highscore"], color=d
figure.show()
```

top scorer in ipl 2022

In [9]: ▶| 
```
figure = px.bar(data, x=["date"], y=data["match_winner"], color=data["m
figure.show()
```

winner team in ipl 2022



In [ ]: ▶|

In [ ]: ▶|