
INFORMATICS PRACTICES

PROJECT WORK

Creating dataframe

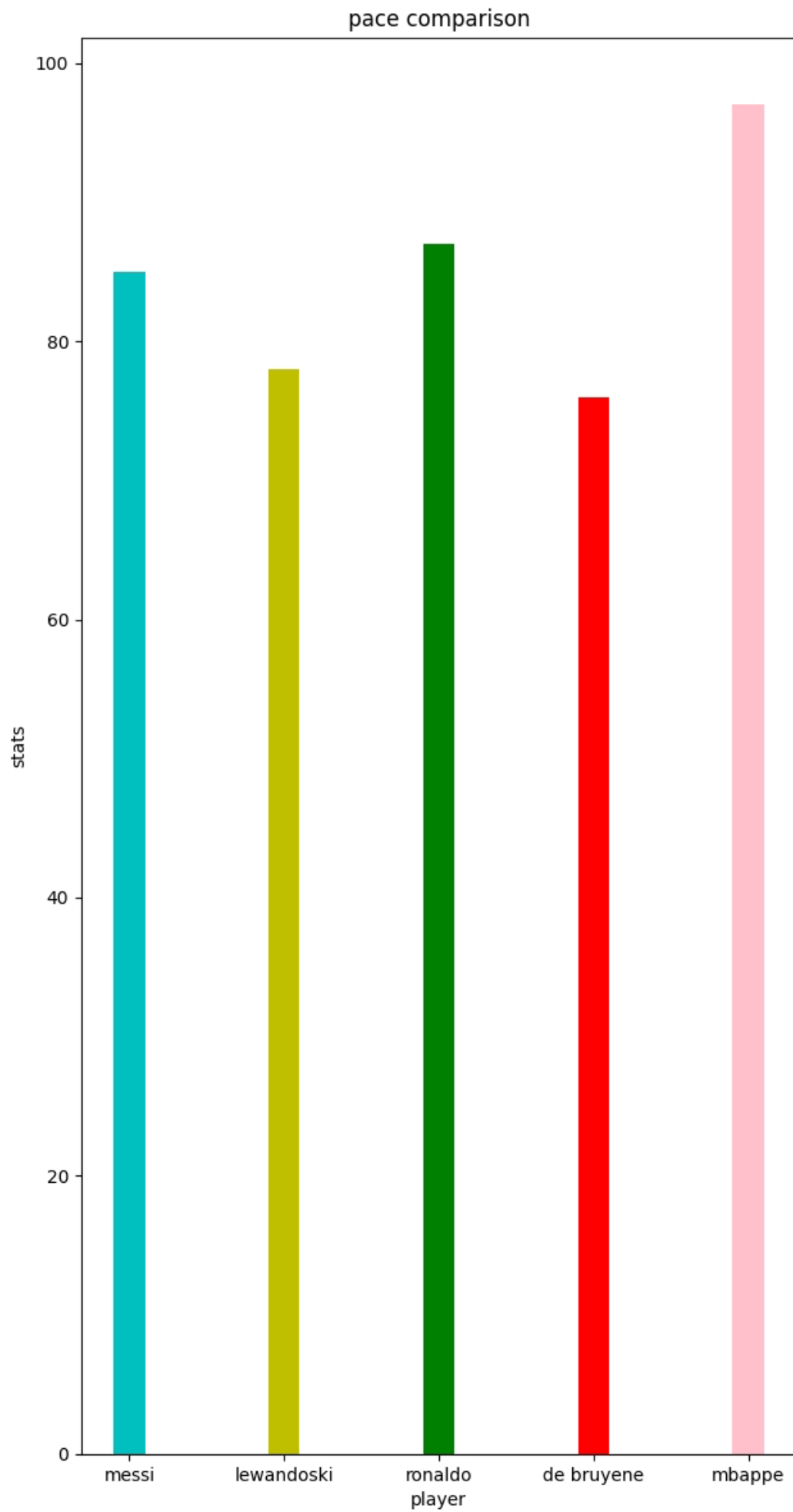
IN THE FOLLOWING DATA THE PERFORMANCE OF TOP FOOTBALL PLAYERS IS COMPARED AS PER THEIR STATS AND OVERALL RATING

```
1 import pandas as pd
2
3 S1 = pd.Series([85, 78, 87, 76, 97], index=['messi',
4 'lewandoski', 'ronaldo', 'de bruyene', 'Mbappe'])
5 S2 = pd.Series([92, 94, 93, 86, 88], index=['messi',
6 'lewandoski', 'ronaldo', 'de bruyene', 'Mbappe'])
7 S3 = pd.Series([91, 79, 82, 93, 80], index=['messi',
8 'lewandoski', 'ronaldo', 'de bruyene', 'Mbappe'])
9 data = {'pace': S1, 'shooting': S2, 'passing': S3}
10 df = pd.DataFrame(data)
11 print(df)
12 df.to_csv('player.csv')
```

	pace	shooting	passing
messi	85	92	91
lewandoski	78	94	79
ronaldo	87	93	82
de bruyene	76	86	93
Mbappe	97	88	80

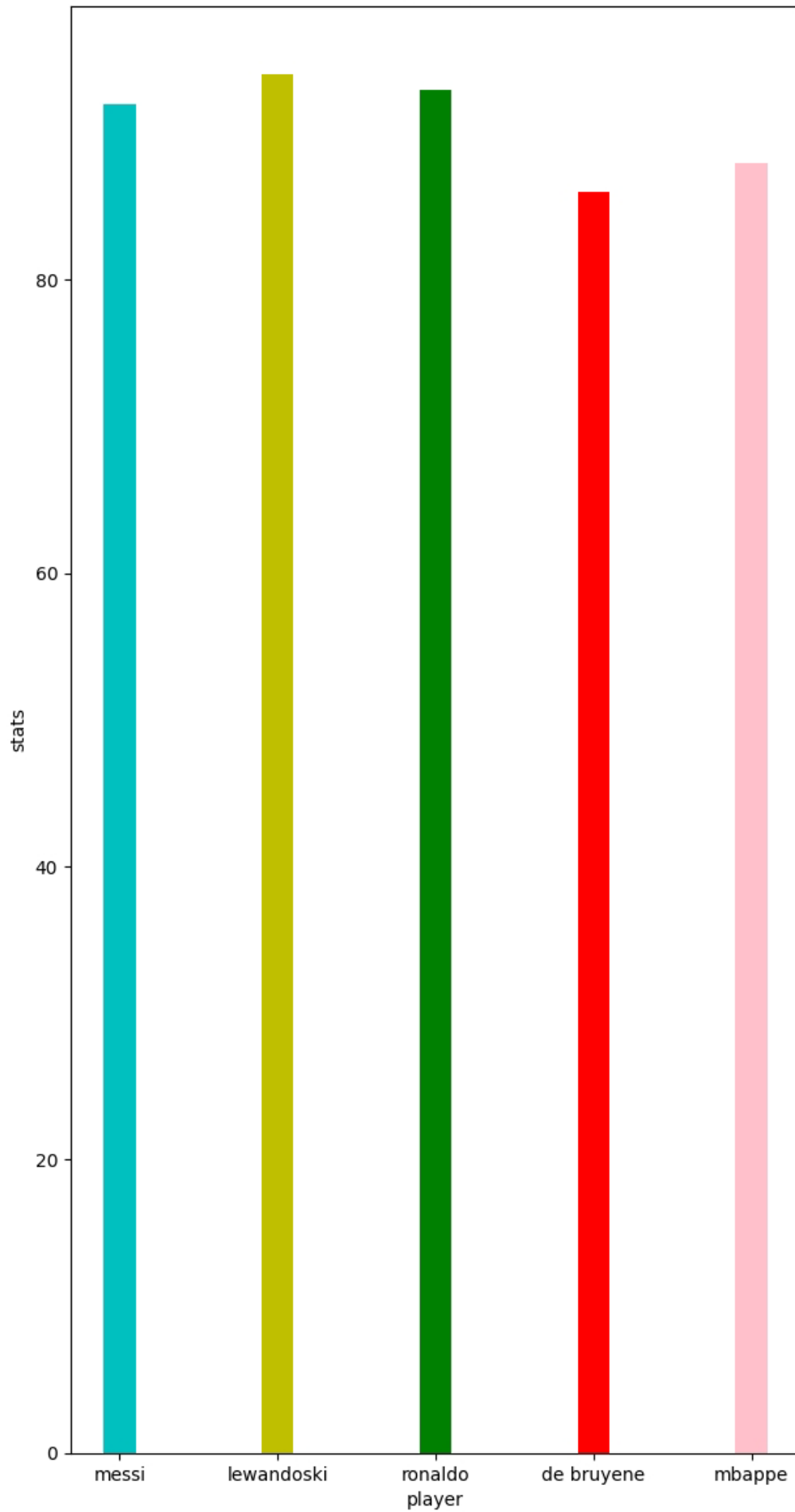
[Program finished]

```
1 import matplotlib.pyplot as plt
2 import numpy as np
3 stats=[85,78,87,76,97]
4 player=['messi','lewandoski','ronaldo','de bruyene','mbappe']
5 plt.bar(player,stats,color=['c','y','g','r','pink'],width=0.2)
6 plt.xlabel('player')
7 plt.ylabel('stats')
8 plt.title(' pace comparison ')
9 plt.show()
```



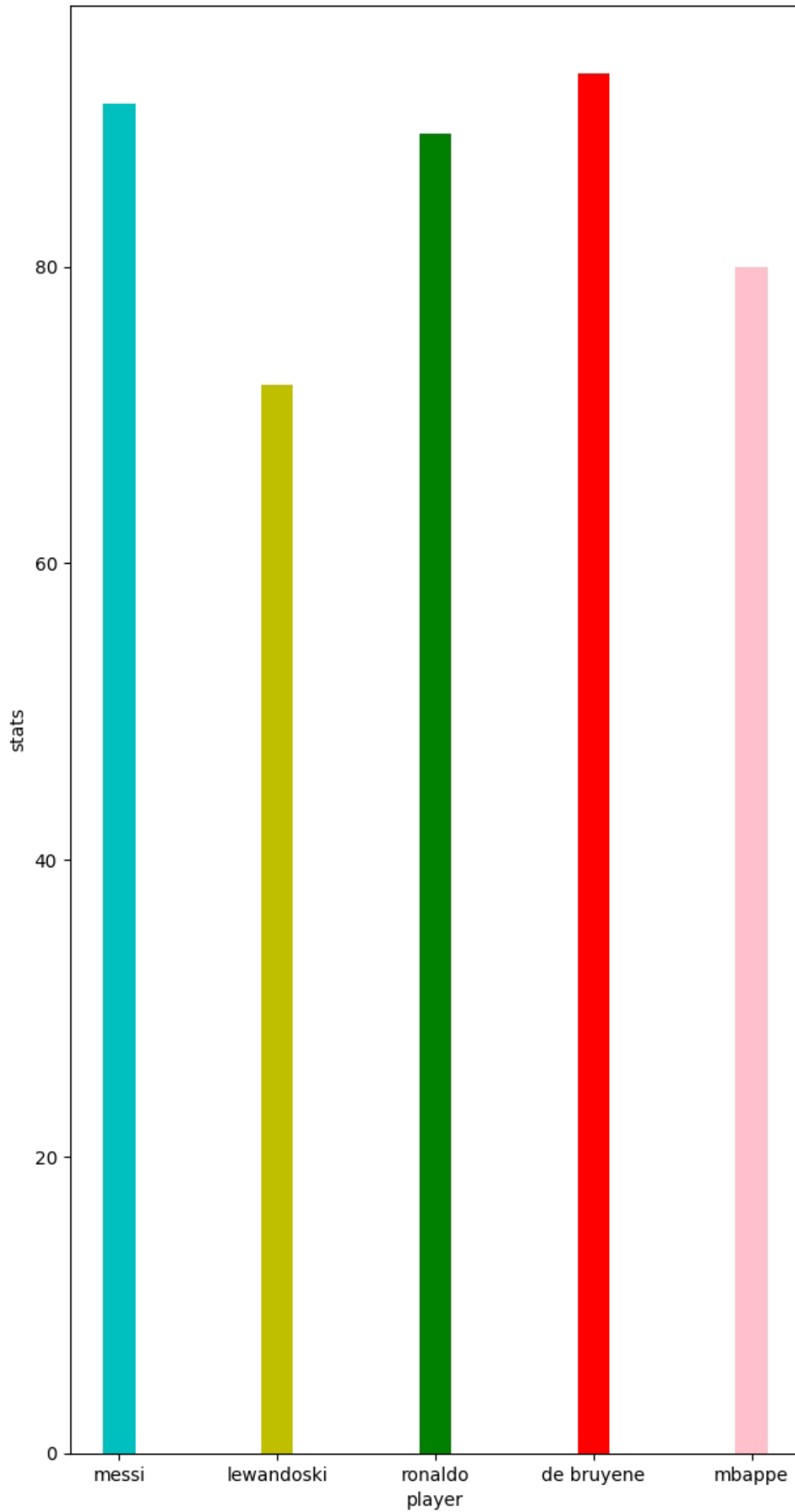
```
1 import matplotlib.pyplot as plt
2 import numpy as np
3 stats=[92,94,93,86,88]
4 player=['messi','lewandoski','ronaldo','de bruyene','mbappe']
5 plt.bar(player,stats,color=['c','y','g','r','pink'],width=0.2)
6 plt.xlabel('player')
7 plt.ylabel('stats')
8 plt.title(' shooting comparison ')
9 plt.show()
```

shooting comparison



```
1 import matplotlib.pyplot as plt
2 import numpy as np
3 stats=[91,72,89,93,80]
4 player=['messi','lewandoski','ronaldo','de bruyene','mbappe']
5 plt.bar(player,stats,color=['c','y','g','r','pink'],width=0.2)
6 plt.xlabel('player')
7 plt.ylabel('stats')
8 plt.title(' passing|comparison ')
9 plt.show()
```


passing comparison



```
1 import matplotlib.pyplot as plt
2 slices=(93,92,92,91,90)
3 player=('messi','lewandoski','ronaldo','de bruyene','mbappe')
4 cols=['pink','yellow','red','brown','blue']
5 exp=[0,0,0.2,0.1,0]
6 plt.pie(slices, labels=player,colors=cols, explode=exp,
7         shadow=True,autopct='%1f%%')
8 plt.title('performance of all five players on the basis of
9         overall rating')
10 plt.legend()
11 plt.show()
```

performance of all five players on the basis of overall rating

