In [148]:
```
from bs4 import BeautifulSoup
import requests
import pandas as pd
import matplotlib.pyplot as plt
```

In [149]:
```

homepage = requests.get("https://www.vlr.gg/matches/results")

soup = BeautifulSoup(homepage.content)

import warnings
warnings.filterwarnings('ignore')
```

In [150]:
```
pages = soup.select_one('div.action-container-pages')
total_number_of_pages = int(pages.find_all('a')[-1].get('href').split('=')[1])

total_number_of_pages = 5
```

In [151]:
```
all_links = []

for i in range(1, total_number_of_pages + 1):
    all_links.append("https://www.vlr.gg/matches/results?page={i}".format(i=i))

all_links
```

Out[151]:
```
['https://www.vlr.gg/matches/results?page=1',
 'https://www.vlr.gg/matches/results?page=2',
 'https://www.vlr.gg/matches/results?page=3',
 'https://www.vlr.gg/matches/results?page=4',
 'https://www.vlr.gg/matches/results?page=5']
```

In [152]:
```

columns =['Team1', 'Team2', 'Score1', 'Score2', 'LastPlayedOn', 'Date', 'WinningTeam', 'LosingTeam']
dataset = pd.DataFrame(columns=columns)
```

Type *Markdown* and LaTeX: α^2

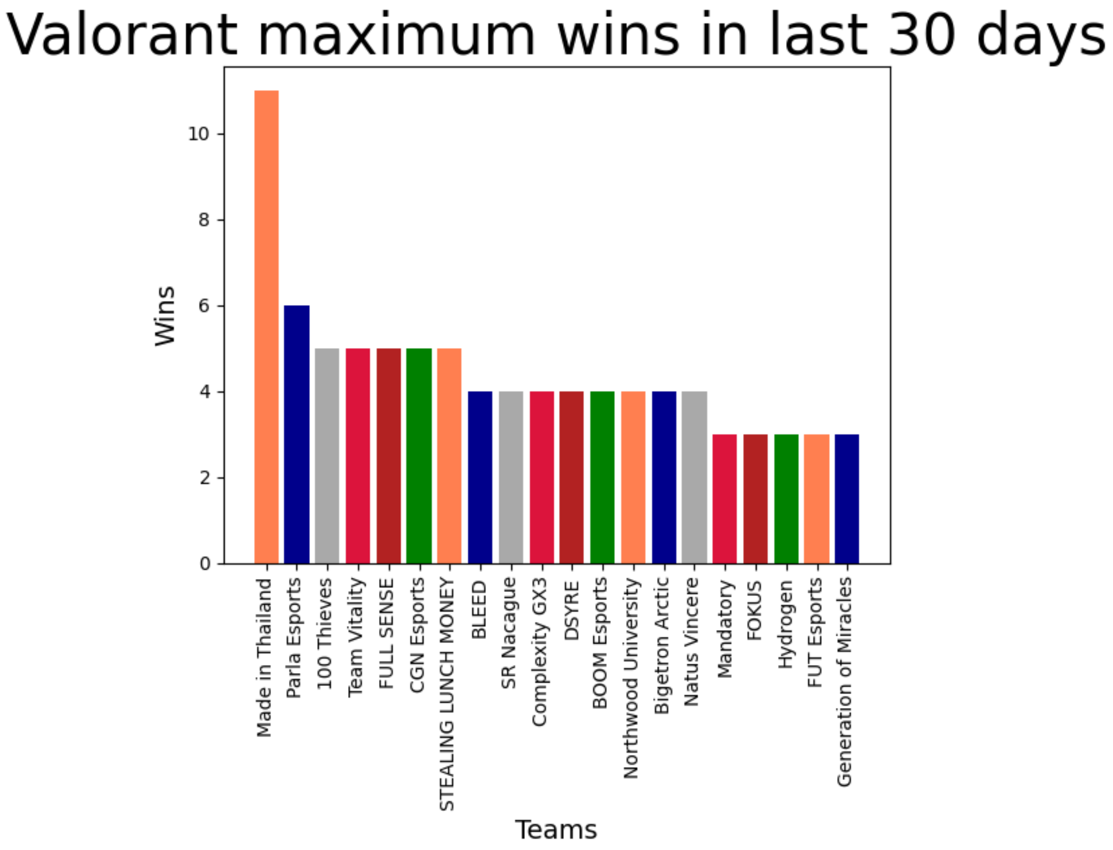
In [153]:
```
for link in all_links:
    webpage = None
    try:
        print(link)
        webpage = requests.get(link)
    except:
        print("Breaking")
        break
    soup = BeautifulSoup(webpage.content, features="lxml")
    element  = soup.select_one('div.col.mod-1')
    date = None
    while True:
        try:
            element = element.next_element
            if not element:
                break
            if element.name == 'div' and element.attrs:
                if "wf-label.mod-large" == '.'.join(element.attrs['class']):
                    date =  ','.join(element.contents[0].split(',')[1:])
                if "wf-card" == '.'.join(element.attrs['class']):
                    inline_matches = element.find_all('a')
                    for inline_match in inline_matches:
                        team_div = inline_match.select('div.text-of')
                        teams = []
                        for ts in team_div[:2]:
                            teams.append(" ".join(ts.text.split()))
                        score = inline_match.select('div.match-item-vs-team-score')
                        scores = []
                        for ts in score[:2]:
                            scores.append(int(" ".join(ts.text.split())))
                        duration = inline_match.select_one('div.ml-eta.mod-completed').text
                        print()
                        if scores[0] < scores[1]:
                            winning_team = teams[1]
                            losing_team = teams[0]
                        else:
                            winning_team = teams[0]
                            losing_team = teams[1]
                        item = {'Team1': teams[0], 'Team2': teams[1], 'Score1': scores[0], 'Score2': scores[1], 'LastP
                        dataset = dataset.append(item, ignore_index=True)
        except:
            break
```

```
https://www.vlr.gg/matches/results?page=1 (https://www.vlr.gg/matches/results?page=1)
```

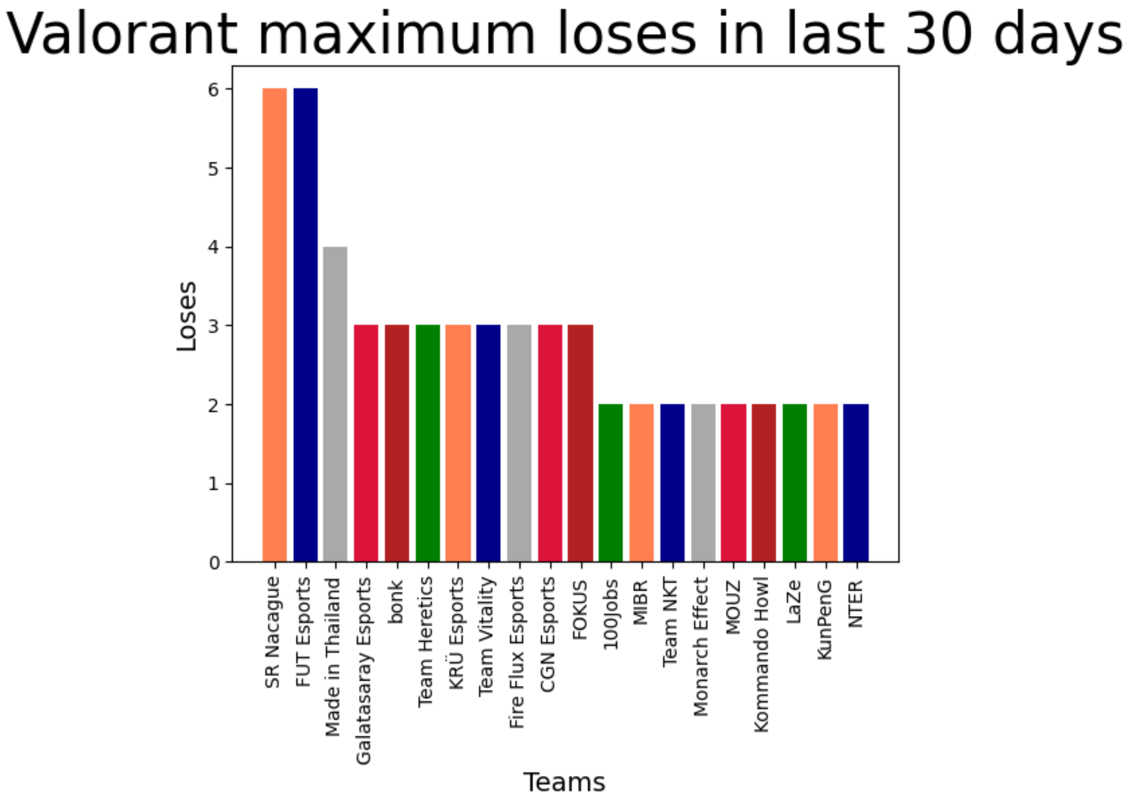
In [154]:
```
frequency_winning = dataset.value_counts('WinningTeam').head(20)

names_winning = []
frequencies_winning = []
for key, i in frequency_winning.items():
    names_winning.append(key)
    frequencies_winning.append(i)
```

In [155]:
```
frequency_losing = dataset.value_counts('LosingTeam').head(20)

names_losing = []
frequencies_losing = []
for key, i in frequency_losing.items():
    names_losing.append(key)
    frequencies_losing.append(i)
```

In [156]:
```
colors = ['coral','darkblue','darkgray','crimson','firebrick', 'green']
plt.xticks(rotation=90)
plt.title('Valorant maximum wins in last 30 days',fontsize=30)
plt.xlabel("Teams",fontsize=14)
plt.ylabel("Wins",fontsize=14)
plt.bar(names_winning, frequencies_winning, color=colors)


plt.show()
```



In [157]:
```
colors = ['coral','darkblue','darkgray','crimson','firebrick', 'green']
plt.xticks(rotation=90)
plt.title('Valorant maximum loses in last 30 days',fontsize=30)
plt.xlabel("Teams",fontsize=14)
plt.ylabel("Loses",fontsize=14)
plt.bar(names_losing, frequencies_losing, color=colors)


plt.show()
```



In [158]:
```
dataset.head()
```

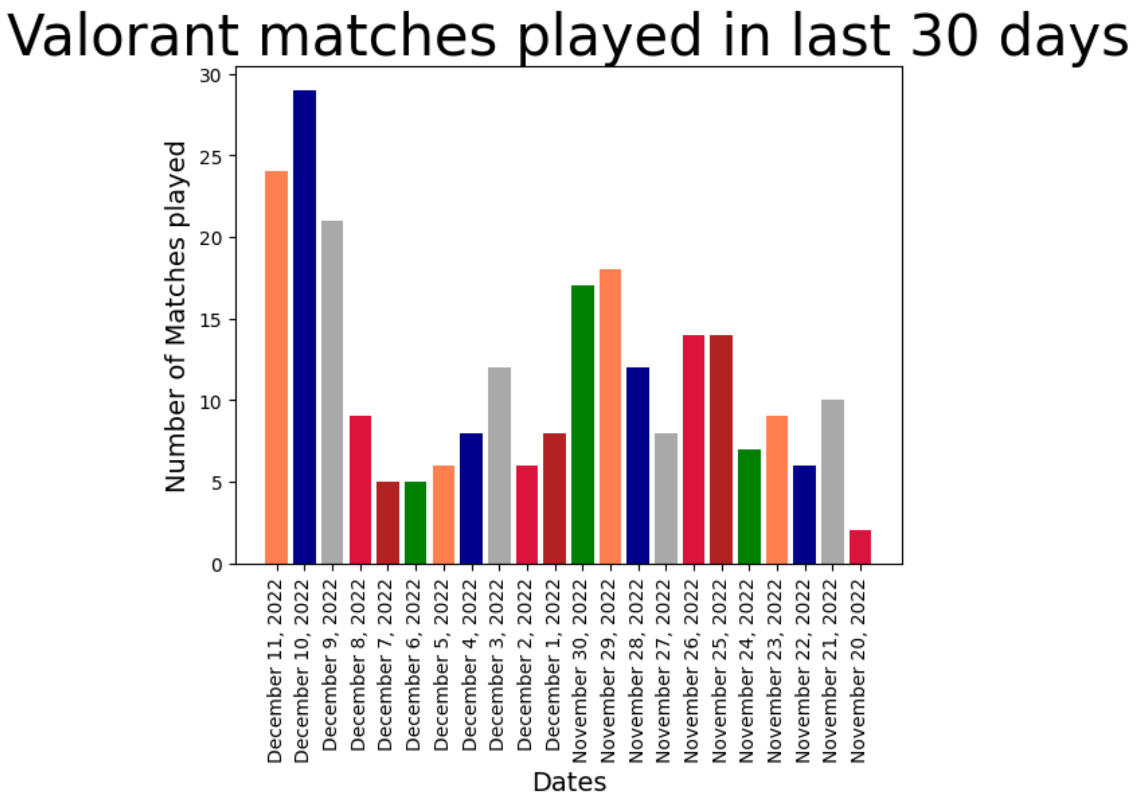
Out[158]:

	Team1	Team2	Score1	Score2	LastPlayedOn	Date	WinningTeam	LosingTeam
0	Complexity GX3	Sanri-O's	2	0	5h 9m	December 11, 2022	Complexity GX3	Sanri-O's
1	BCR	Spaghetti	2	0	5h 9m	December 11, 2022	BCR	Spaghetti
2	SJSU Blue	UBC	3	0	5h 19m	December 11, 2022	SJSU Blue	UBC
3	ODDIK	TotalePRO	2	0	6h 59m	December 11, 2022	ODDIK	TotalePRO
4	SQUAD6	Nada mal si nos tá, fazendo dinheiro...	2	1	6h 59m	December 11, 2022	SQUAD6	Nada mal si nos tá, fazendo dinheiro...

In [159]:
```
frequency_date = dataset.value_counts('Date')
from collections import defaultdict
from datetime import datetime
dicto = defaultdict(lambda: 0)

for key, i in frequency_date.items():
    dicto[key] = i

dicto_date = sorted(dicto, key=lambda date: datetime.strptime(date, "%B %d, %Y"), reverse=True)
type(dicto_date)
matches_played_count = []
for curr_date in dicto_date:
    matches_played_count.append(dicto[curr_date])
```

In [160]:
```
colors = ['coral','darkblue','darkgray','crimson','firebrick', 'green']
plt.xticks(rotation=90)
plt.title('Valorant matches played in last 30 days',fontsize=30)
plt.xlabel("Dates",fontsize=14)
plt.ylabel("Number of Matches played",fontsize=14)
plt.bar(dicto_date, matches_played_count, color=colors)
```

Out[160]:
```
<BarContainer object of 22 artists>
```



In [161]:
```
from collections import defaultdict

def team_performance(name):
    frame = defaultdict(lambda: 0)
    streak = 0
    for i in dataset.itertuples():
        if i[7] == name:
            streak += 1
            frame[i[6]] = streak
        if i[8] == name:
            streak -= 1
            frame[i[6]] = streak
    frame_dates = sorted(frame, key=lambda date: datetime.strptime(date, "%B %d, %Y"), reverse=False)
    streak_list = []
    for date in frame_dates:
        streak_list.append(frame[date])
    return (frame_dates, streak_list[::-1])
print(team_performance('Made in Thailand'))
```

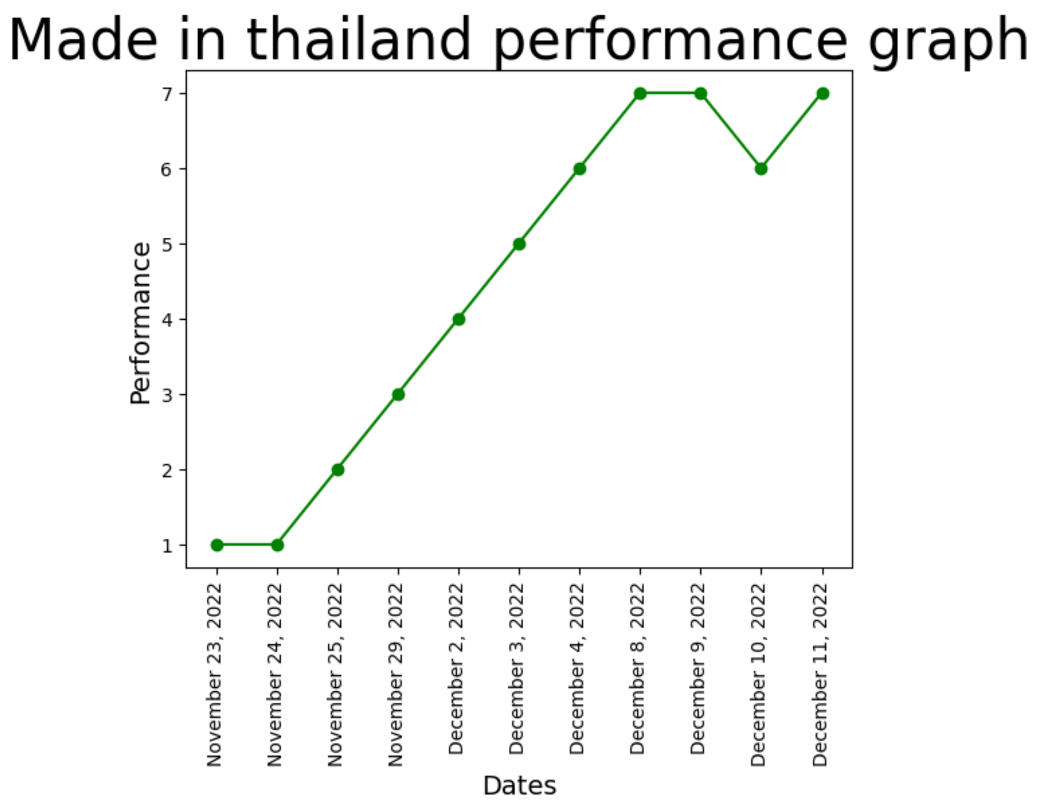
```
(['November 23, 2022', 'November 24, 2022', 'November 25, 2022', 'November 29, 2022', 'December 2, 2022', 'December
3, 2022', 'December 4, 2022', 'December 8, 2022', 'December 9, 2022', 'December 10, 2022', 'December 11, 2022'], [1,
1, 2, 3, 4, 5, 6, 7, 7, 6, 7])
```

In [162]:
```
def team_streak(name):
    frame = defaultdict(lambda: 0)
    streak = 0
    iswinning = False
    islosing = False
    for i in dataset.itertuples():
        if i[7] == name:
            streak += 1
            iswinning = True
            if islosing == True:
                islosing = False
                streak = 0
            frame[i[6]] = streak
        if i[8] == name:
            streak -= 1
            islosing = True
            if iswinning == True:
                iswinning = False
                streak = 0
            frame[i[6]] = streak
    frame_dates = sorted(frame, key=lambda date: datetime.strptime(date, "%B %d, %Y"), reverse=False)
    streak_list = []
    for date in frame_dates:
        streak_list.append(frame[date])
    return (frame_dates, streak_list[::-1])
print(team_streak('Made in Thailand'))
```

```
(['November 23, 2022', 'November 24, 2022', 'November 25, 2022', 'November 29, 2022', 'December 2, 2022', 'December
3, 2022', 'December 4, 2022', 'December 8, 2022', 'December 9, 2022', 'December 10, 2022', 'December 11, 2022'], [1,
0, 0, 1, 2, 3, 4, 0, 0, 0, 0])
```

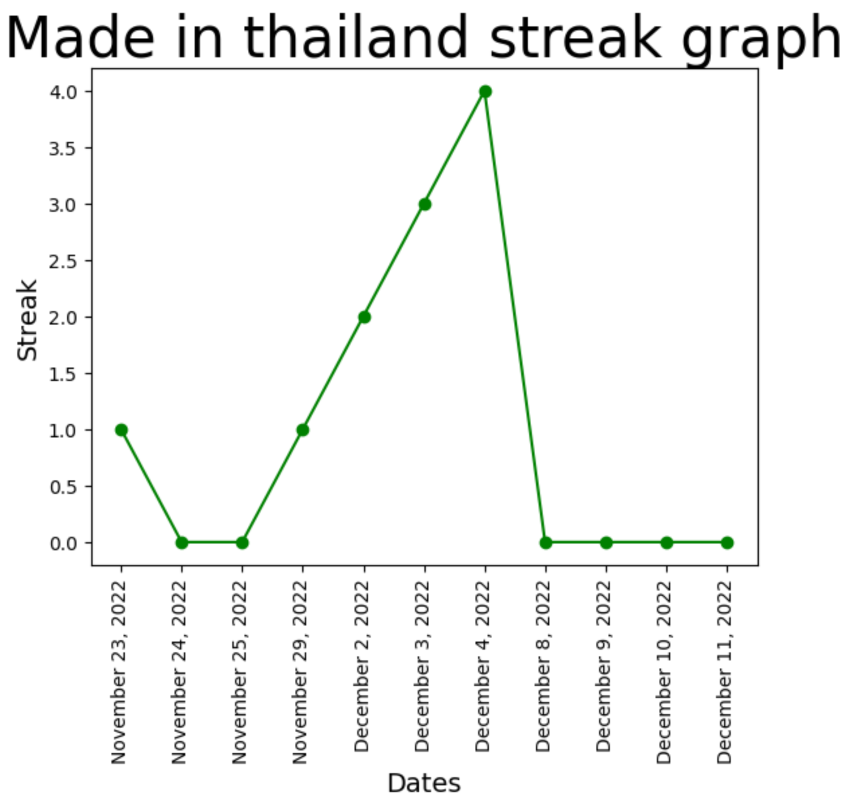
In [163]:
```
mith = team_performance('Made in Thailand')
plt.xticks(rotation=90)
plt.title('Made in thailand performance graph',fontsize=30)
plt.xlabel("Dates",fontsize=14)
plt.ylabel("Performance",fontsize=14)
plt.plot(mith[0], mith[1], 'go-')
```

Out[163]:
```
[<matplotlib.lines.Line2D at 0x12ac39e40>]
```



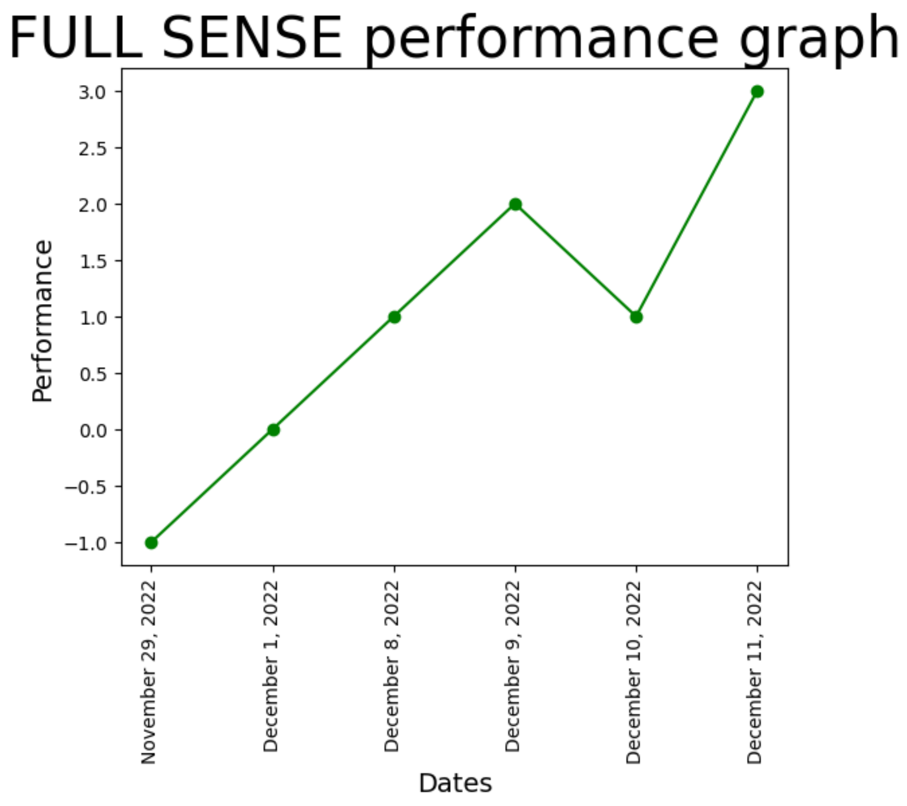
```
In [164]: mith = team_streak('Made in Thailand')
          plt.xticks(rotation=90)
          plt.title('Made in thailand streak graph',fontsize=30)
          plt.xlabel("Dates",fontsize=14)
          plt.ylabel("Streak",fontsize=14)
          plt.plot(mith[0], mith[1], 'go-')
```

```
Out[164]: [<matplotlib.lines.Line2D at 0x12acafa90>]
```

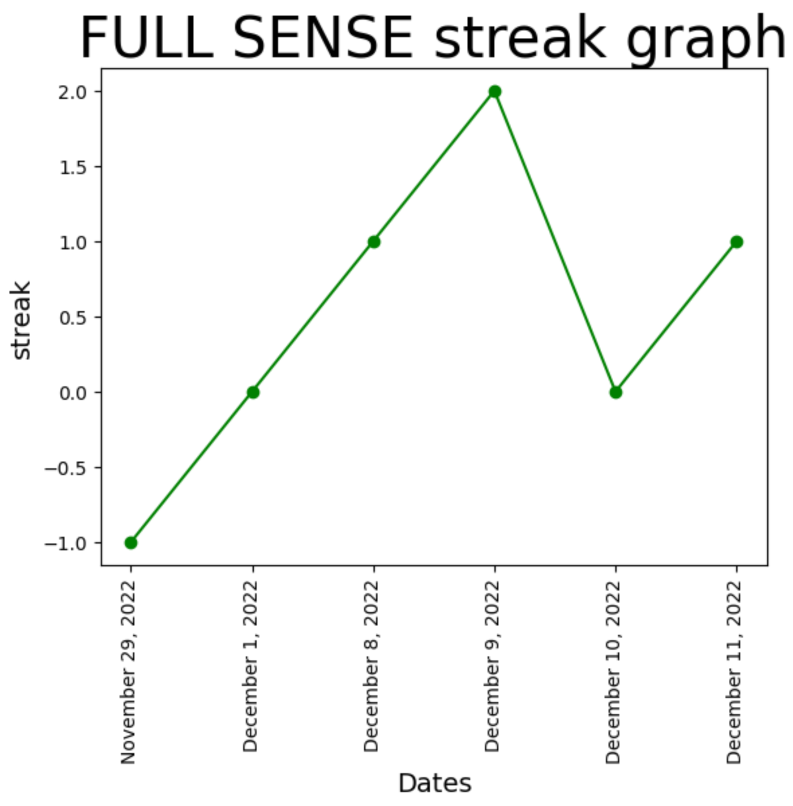


```
In [165]: FULL_SENSE = team_performance('FULL SENSE')
          plt.xticks(rotation=90)
          plt.title('FULL SENSE performance graph',fontsize=30)
          plt.xlabel("Dates",fontsize=14)
          plt.ylabel("Performance",fontsize=14)
          plt.plot(FULL_SENSE[0], FULL_SENSE[1], 'go-')
```

```
Out[165]: [<matplotlib.lines.Line2D at 0x125b82f80>]
```

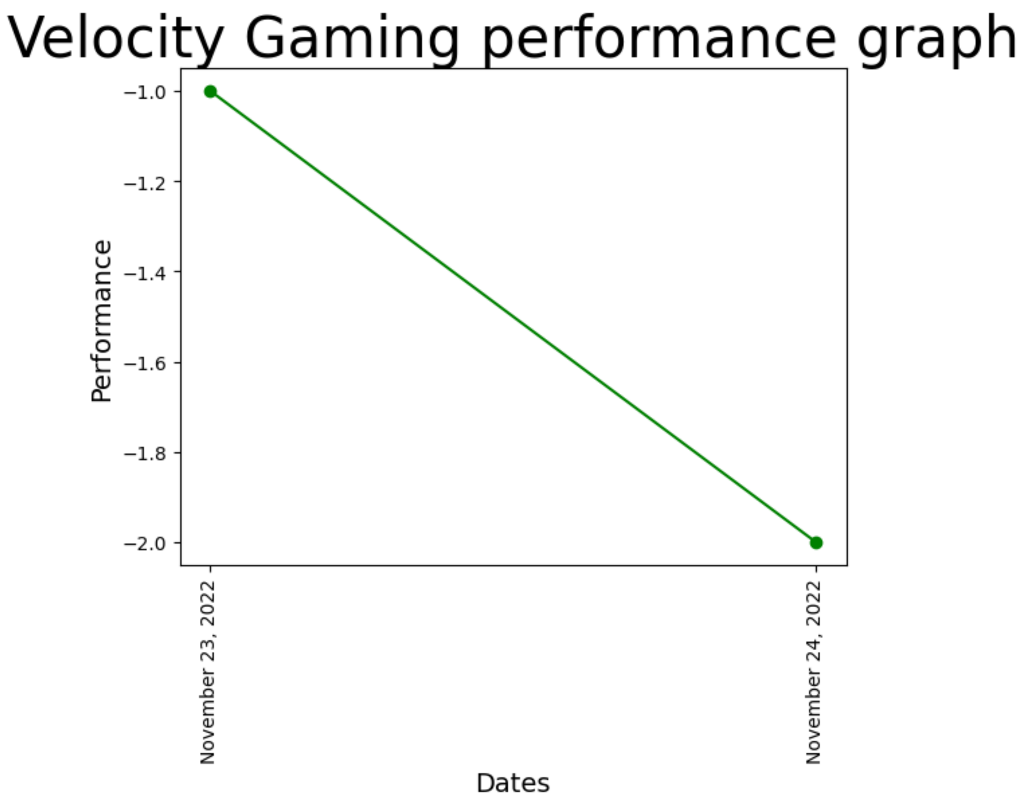


```
In [166]: FULL_SENSE = team_streak('FULL SENSE')
          plt.xticks(rotation=90)
          plt.title('FULL SENSE streak graph',fontsize=30)
          plt.xlabel("Dates",fontsize=14)
          plt.ylabel("streak",fontsize=14)
          plt.plot(FULL_SENSE[0], FULL_SENSE[1], 'go-')

Out[166]: [<matplotlib.lines.Line2D at 0x12a1ff0a0>]
```

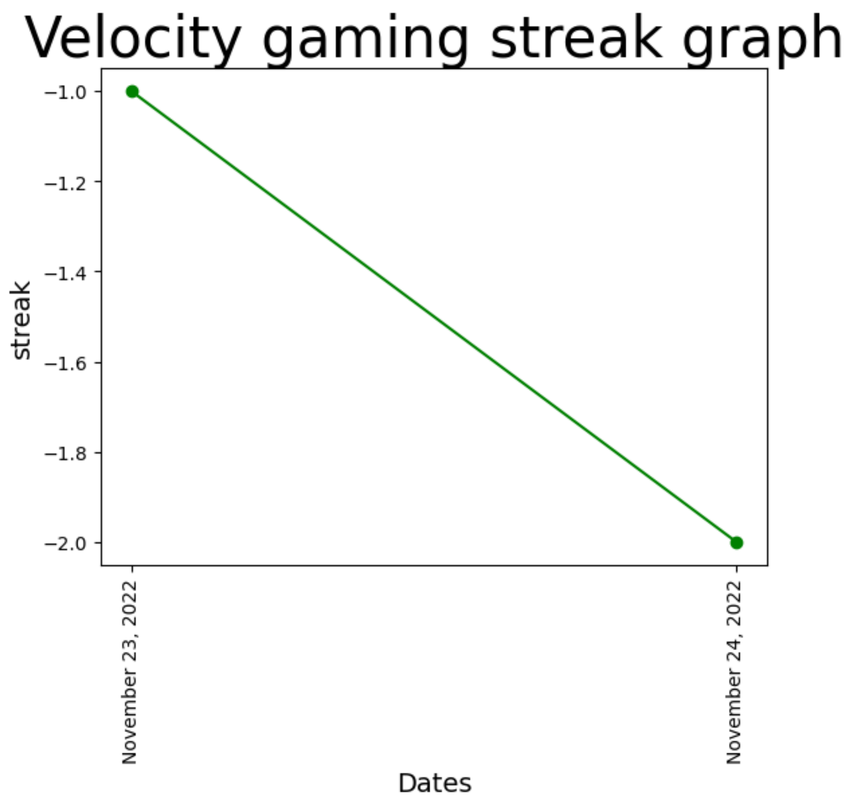


In [167]:
```
Velocity_Gaming = team_performance('Velocity Gaming')
plt.xticks(rotation=90)
plt.title('Velocity Gaming performance graph',fontsize=30)
plt.xlabel("Dates",fontsize=14)
plt.ylabel("Performance",fontsize=14)
plt.plot(Velocity_Gaming[0], Velocity_Gaming[1], 'go-')
```

Out[167]:
```
[<matplotlib.lines.Line2D at 0x128bb6f50>]
```



```
In [168]: Velocity_Gaming = team_streak('Velocity Gaming')
          plt.xticks(rotation=90)
          plt.title('Velocity gaming streak graph',fontsize=30)
          plt.xlabel("Dates",fontsize=14)
          plt.ylabel("streak",fontsize=14)
          plt.plot(Velocity_Gaming[0], Velocity_Gaming[1], 'go-')

Out[168]: [<matplotlib.lines.Line2D at 0x128d1e500>]
```


Velocity gaming streak graph
streak
November 23, 2022
November 24, 2022
Dates