

In [1]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings("ignore")
```

In [7]:

```
data = pd.read_csv("foreign_visits.csv")
```

In [8]:

```
data.head()
```

Out[8]:

	place_of_visit	period_of_visit_from	period_of_visit_to	no_of_days	expenses_incurred_on_char
0	Bhutan	15-06-2014	16-06-2014	1.0	
1	Brazil	13-07-2014	17-07-2014	4.0	
2	Nepal	03-08-2014	05-08-2014	2.0	
3	Japan	30-08-2014	03-09-2014	4.0	
4	USA	25-09-2014	01-10-2014	6.0	

In [9]:

```
data.tail()
```

Out[9]:

	place_of_visit	period_of_visit_from	period_of_visit_to	no_of_days	expenses_incurred_on_cl
101	Thailand	02-11-2019	04-11-2019	3.0	
102	Brazil	13-11-2021	15-11-2019	3.0	
103	Bangladesh	26-03-2021	27-03-2021	2.0	
104	USA	22-09-2021	26-09-2021	5.0	
105	Italy and UK	29-10-2021	02-11-2021	5.0	

In [10]:

```
data.shape
```

Out[10]:

```
(106, 5)
```

In [11]:



```
data.columns
```

Out[11]:

```
Index(['place_of_visit', 'period_of_visit_from', 'period_of_visit_to',  
      'no_of_days', 'expenses_incurred_on_chartered_flight_rs'],  
      dtype='object')
```

In [12]:



```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 106 entries, 0 to 105  
Data columns (total 5 columns):  
#   Column                                     Non-Null Count  Dtype  
---  ---  
0   place_of_visit                           106 non-null    object  
1   period_of_visit_from                     106 non-null    object  
2   period_of_visit_to                       106 non-null    object  
3   no_of_days                               106 non-null    float64  
4   expenses_incurred_on_chartered_flight_rs 103 non-null    object  
dtypes: float64(1), object(4)  
memory usage: 4.3+ KB
```

In [13]:



```
data.describe()
```

Out[13]:

	no_of_days
count	106.000000
mean	1.858491
std	1.337650
min	0.000000
25%	1.000000
50%	1.750000
75%	2.000000
max	8.000000

In [14]:

```
data.isnull().sum()
```

Out[14]:

```
place_of_visit      0
period_of_visit_from 0
period_of_visit_to   0
no_of_days           0
expenses_incurred_on_chartered_flight_rs 3
dtype: int64
```

In [18]:

```
data.place_of_visit.unique()
```

Out[18]:

```
array(['Bhutan', 'Brazil', 'Nepal', 'Japan', 'USA', 'Myanmar',
       'Australia', 'Fiji', 'Seychelles', 'Mauritius', 'Sri Lanka',
       'Singapore', 'France', 'Germany', 'Canada', 'China ', 'Mongolia',
       'South Korea', 'Bangladesh', 'Uzbekistan', 'Kazakhstan', 'Russia',
       'Turkmenistan', 'Kyrgyzstan', 'Tajikistan', 'United Arab Emirates',
       'Ireland', 'UK', 'Turkey', 'Malaysia', 'Afghanistan', 'Pakistan',
       'Belgium', 'Saudi Arabia', 'Iran', 'Qatar', 'Switzerland',
       'Mexico', 'Mozambique', 'South Africa', 'Tanzania', 'Kenya',
       'Vietnam', 'China', 'Laos', 'Germany ', 'Spain', 'Portugal',
       'Netherlands', 'Israel', 'Philippines', 'Jordan', 'Palestine',
       'UAE', 'Oman', 'Sweden', 'Indonesia', 'Rwanda', 'Uganda',
       'Maldives', 'Argentina', 'Maldives & Sri Lanka',
       'France, UAE and Bahrian', 'Thailand', 'Italy and UK'],
      dtype=object)
```

In [19]:

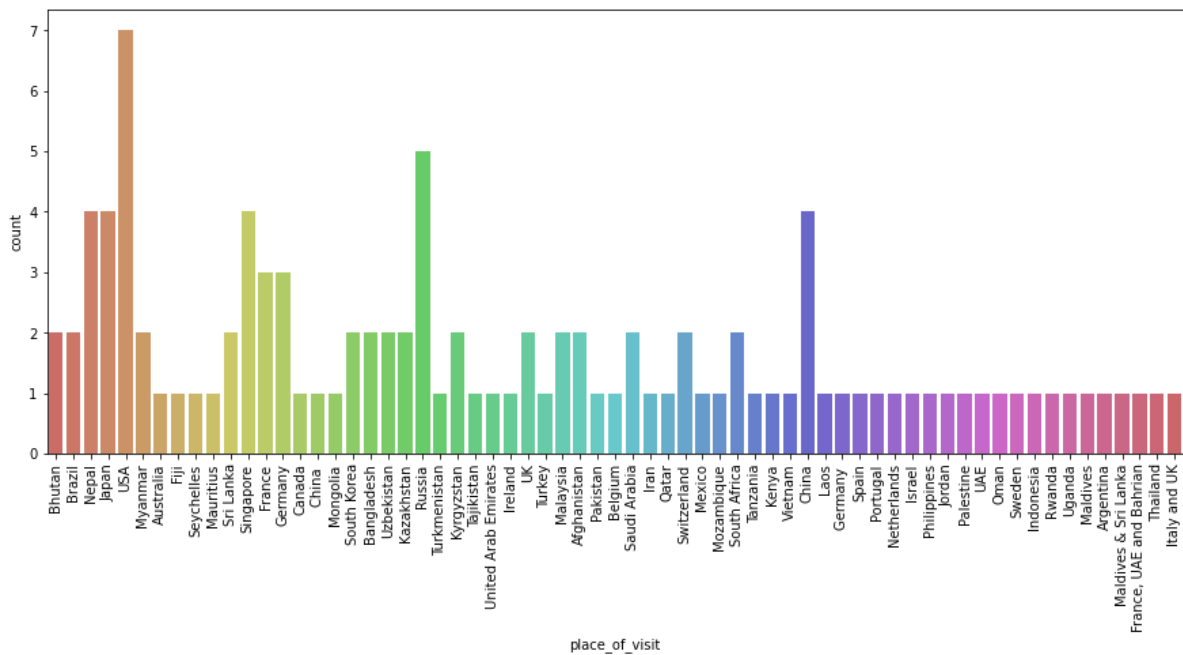
```
data.place_of_visit.value_counts()
```

Out[19]:

```
USA      7
Russia   5
Singapore 4
Nepal    4
Japan    4
..
Qatar    1
Mexico   1
Mozambique 1
Tanzania 1
Italy and UK 1
Name: place_of_visit, Length: 65, dtype: int64
```

In [20]:

```
plt.figure(figsize=(15,6))
sns.countplot('place_of_visit', data = data, palette='hls')
plt.xticks(rotation = 90)
plt.show()
```



In [15]:

```
data.no_of_days.unique()
```

Out[15]:

```
array([1. , 4. , 2. , 6. , 3. , 5. , 0.5, 1.5, 0. , 8. ])
```

In [16]:

```
data.no_of_days.value_counts()
```

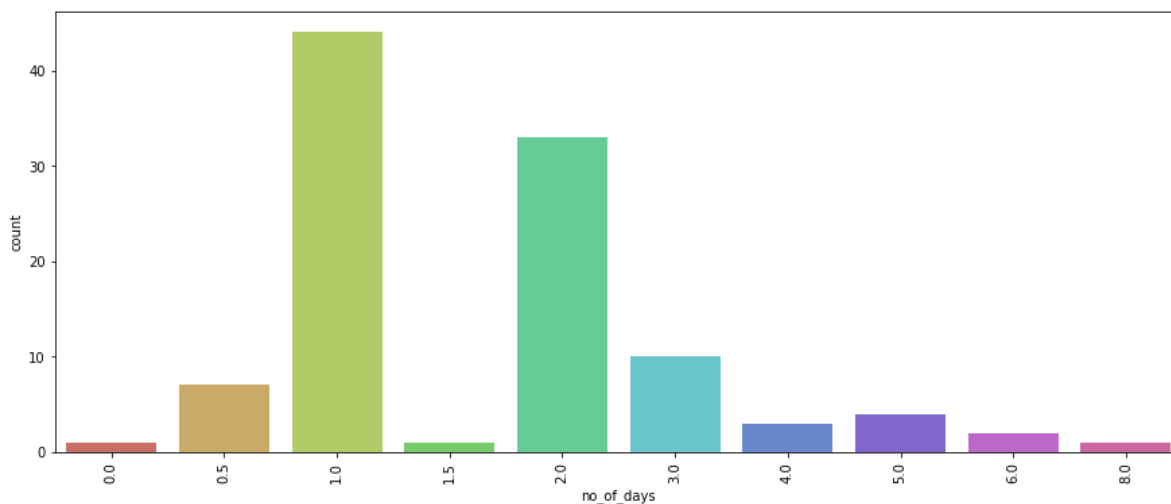
Out[16]:

```
1.0    44
2.0    33
3.0    10
0.5     7
5.0     4
4.0     3
6.0     2
1.5     1
0.0     1
8.0     1
```

Name: no_of_days, dtype: int64

In [17]:

```
plt.figure(figsize=(15,6))
sns.countplot('no_of_days', data = data, palette='hls')
plt.xticks(rotation = 90)
plt.show()
```



In [34]:

```
print('The number of days Prime Minister Modi spent in foreign visits:', data.no_of_days)
```

The number of days Prime Minister Modi spent in foreign visits: 197.0

In [24]:

```
data1=data[data.expenses_incurred_on_chartered_flight_rs.notnull()]
```

In [27]:

```
data2 = data1[data1.expenses_incurred_on_chartered_flight_rs != 'IAF BBJ Aircraft']
```

In [29]:

data2

Out[29]:

	place_of_visit	period_of_visit_from	period_of_visit_to	no_of_days	expenses_incurred_on_cl
0	Bhutan	15-06-2014	16-06-2014	1.0	
1	Brazil	13-07-2014	17-07-2014	4.0	
3	Japan	30-08-2014	03-09-2014	4.0	
4	USA	25-09-2014	01-10-2014	6.0	
5	Myanmar	11-11-2014	13-11-2014	2.0	
...	
98	Russia	04-09-2019	05-09-2019	2.0	
99	USA	21-09-2019	28-09-2019	8.0	
100	Saudi Arabia	28-10-2019	29-10-2019	2.0	
101	Thailand	02-11-2019	04-11-2019	3.0	
102	Brazil	13-11-2021	15-11-2019	3.0	

95 rows × 5 columns

In [30]:

```
data2['expenses_incurred_on_chartered_flight_rs'] = data2['expenses_incurred_on_chartered_flight_rs']
```

In [36]:

```
print('Total expenses incurred on Prime Minister foreign visits:',
      data2['expenses_incurred_on_chartered_flight_rs'].sum())
```

Total expenses incurred on Prime Minister foreign visits: 5783009175.01