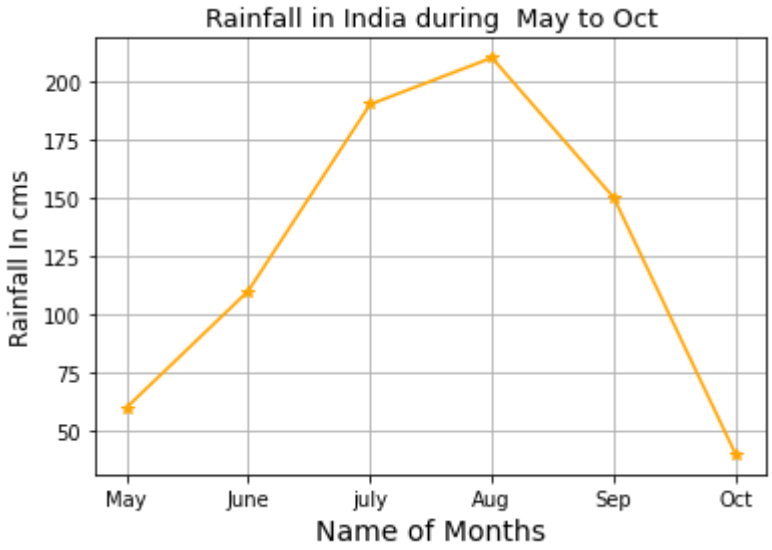
Python Data Visualization, EDA, Data Cleanning

In [1]:
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn           as sns
```

In [4]:
```
rainfall  =  [60 ,     110 ,     190 ,  210 ,   150,     40    ]
month     =  ['May' , 'June' , "july" , 'Aug' , 'Sep' , 'Oct']
```

In [5]:
```
plt.plot(month  , rainfall  ,  marker ="*" , color = 'orange')
plt.ylabel('Rainfall In cms', size = 12)
plt.xlabel('Name of Months' , size = 14)
plt.title("Rainfall in India during  May to Oct"  , size = 13)
plt.grid()
```

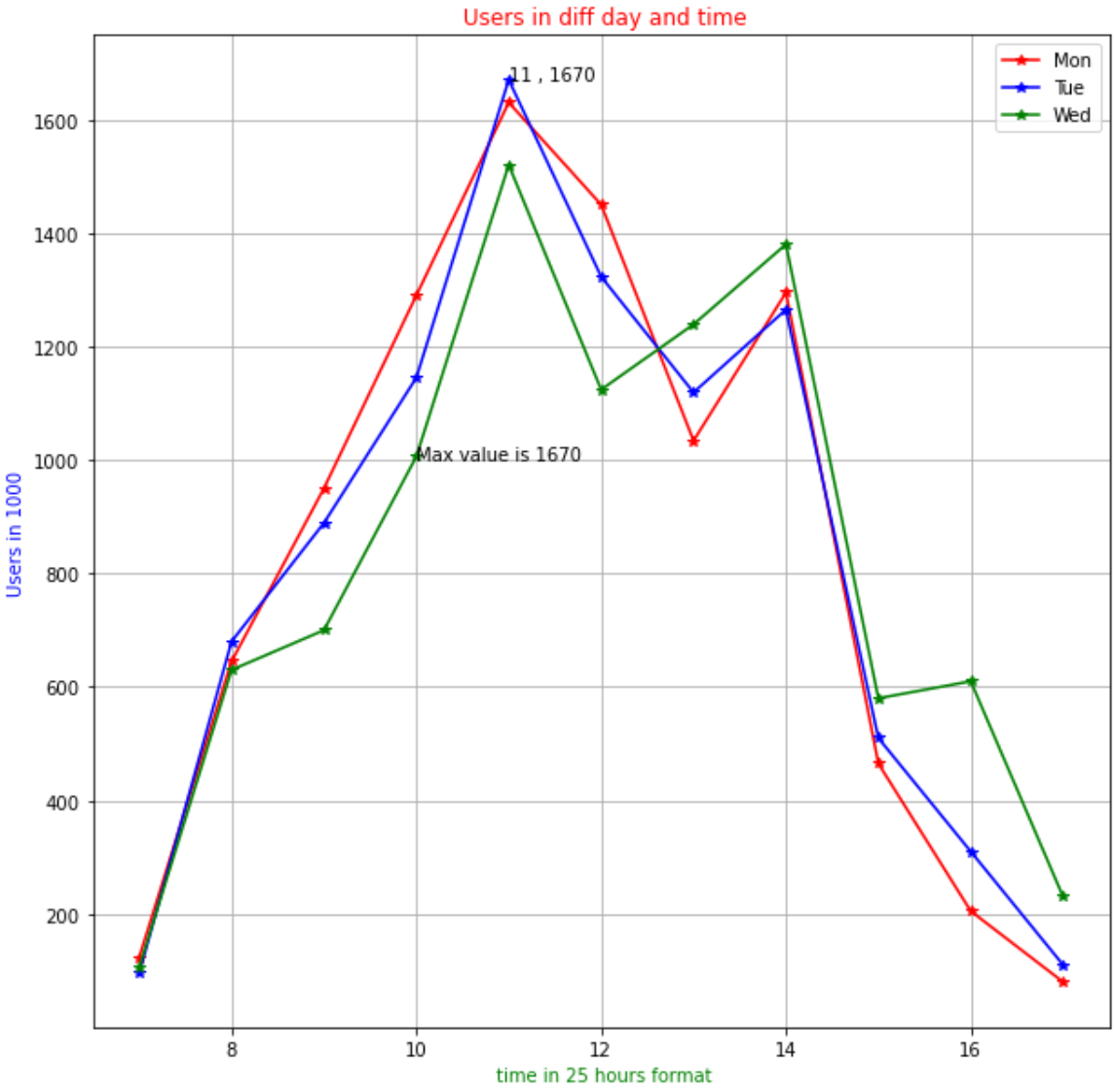


In [853]:
```
#  multile line plot
#  we want to compare the web trafiic( user loging) for 3 diffresnt days dur
```

In [6]:
```
web_monday     = [123,645,950,1290,1630,1450,1034,1295,465,205,80]
web_tuseday    = [95,680,889,1145,1670,1323,1119,1265,510,310,110]
web_wednesday =  [ 105,630,700,1006,1520,1124,1239,1380,580,610,230]
time_hrs       =  [7,8,9,10,11,12,13,14,15,16,17]   #  24 hours format
# data  for mon , tues, wed ,  numbers in 1000's
```

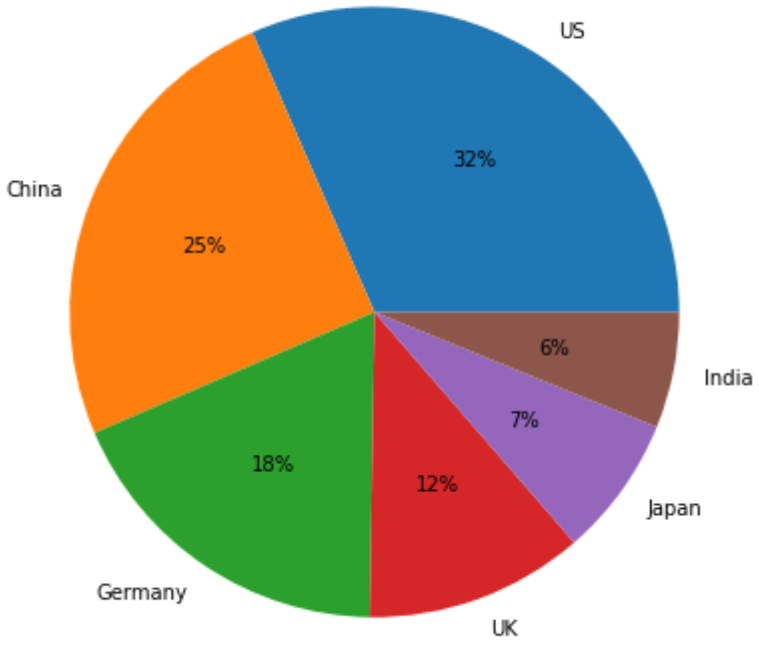
In [13]:
```
plt.figure(figsize=  (10,10))
plt.plot( time_hrs  , web_monday ,  marker ="*"  , color = "r" ,  label = 'M
plt.plot( time_hrs  , web_tuseday ,  marker ="*" , color = "b"  , label = 'T
plt.plot( time_hrs  , web_wednesday,  marker ="*" , color = "g" , label = 'W
plt.title(" Users in diff day and time" ,  color = 'red')
plt.xlabel(" time in 25 hours format" ,  color = 'green')
plt.ylabel('Users in 1000' ,  color = 'blue')
plt.legend()
plt.grid()
plt.text(x = 10, y = 1000, s = 'Max value is 1670' )
plt.text(x = 11 , y =  1670  , s  ='11 , 1670')
```

Out[13]:
```
Text(11, 1670, '11 , 1670')
```



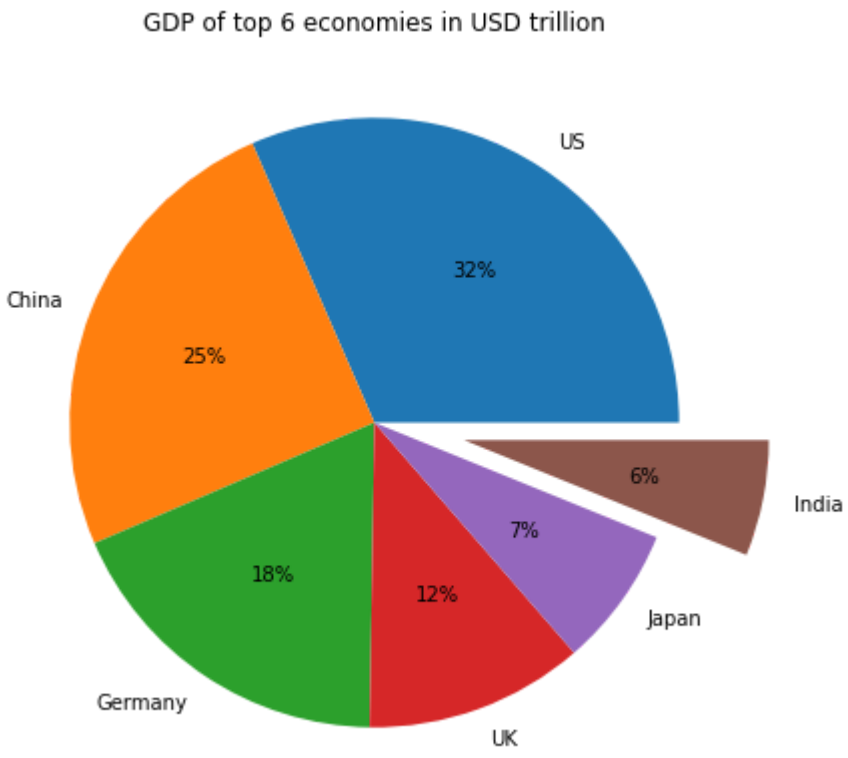
In [8]:
```
country          = ['US' , 'China'  , 'Germany'  , 'UK' , 'Japan' , 'India']
gdp_in_trilusd   = [ 19 ,    15  ,      11 , 7 ,  4.5   , 3.7]
```

In [9]:
```
plt.figure(figsize=  (7 , 7))
plt.pie(gdp_in_trilusd , labels = country, autopct ='%1.0f%%');
```

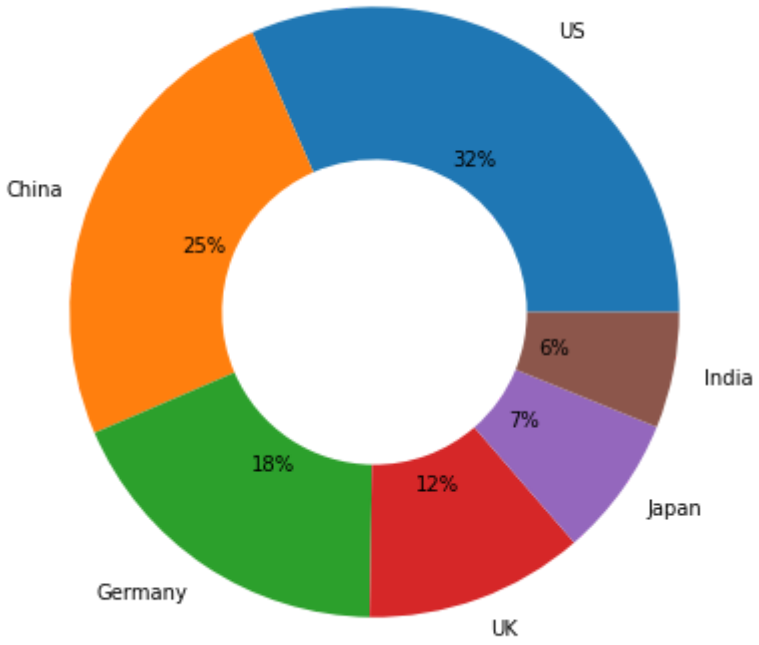


In [10]:
```
plt.figure(figsize=  (7 , 7))
plt.pie(gdp_in_trilusd , labels = country, autopct ='%1.0f%%', explode = (0,
plt.title("GDP of top 6 economies in USD trillion")
```

Out[10]:
```
Text(0.5, 1.0, 'GDP of top 6 economies in USD trillion')
```



In [11]:
```
plt.figure(figsize=  (7 , 7))
plt.pie(gdp_in_trilusd , labels = country, autopct ='%1.0f%%', wedgeprops =
```



In [12]:
```
plt.bar(   country   , gdp_in_trilusd , color = 'r')
plt.ylabel('GDP in USD trillion')
```

Out[12]:
```
Text(0, 0.5, 'GDP in USD trillion')
```