Visualize the data using Python library Seaborn by plotting following graphs forest fire datasets

a. Scatter Plot b. Box Plot c. Histogram d. Pie Chart e. Line Chart

In [14]:

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

In [15]:

```
df=pd.read_csv('forestfires.csv')
```

In [16]:

```
df
```

Out[16]:

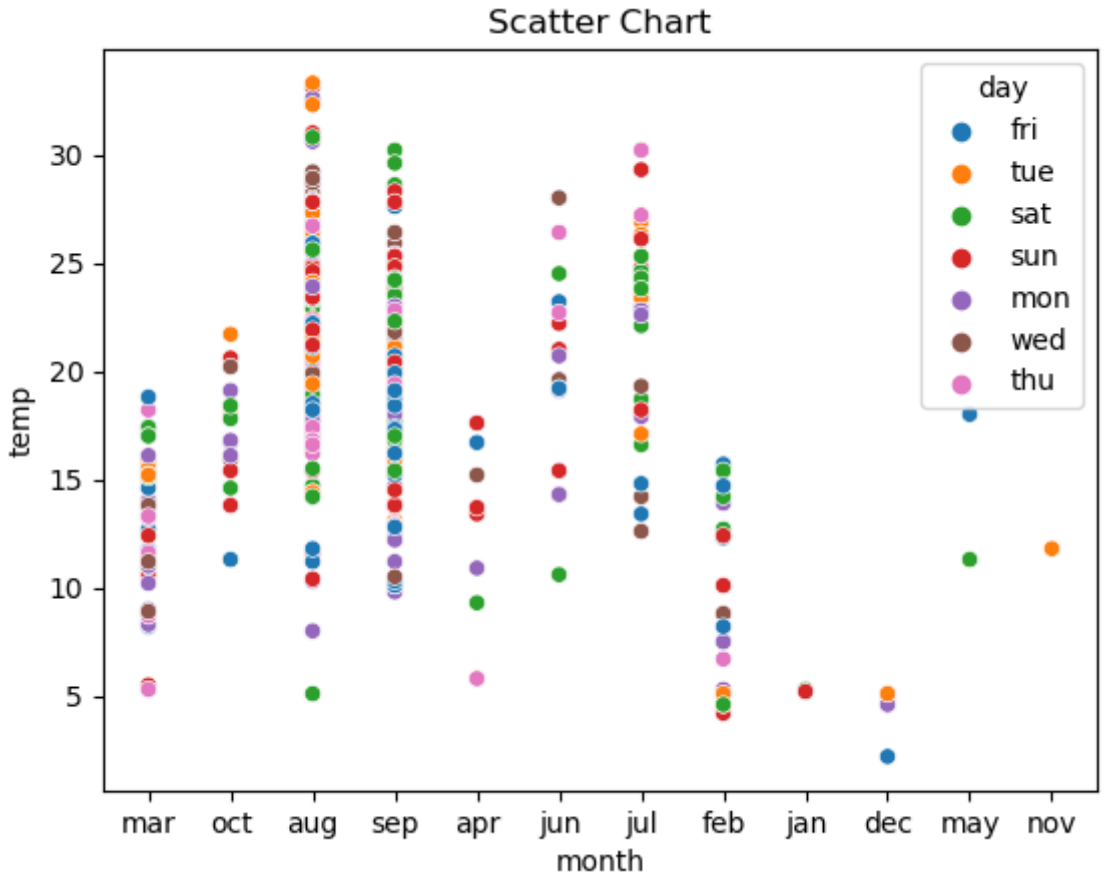
	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	area
0	7	5	mar	fri	86.2	26.2	94.3	5.1	8.2	51	6.7	0.0	0.00
1	7	4	oct	tue	90.6	35.4	669.1	6.7	18.0	33	0.9	0.0	0.00
2	7	4	oct	sat	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.00
3	8	6	mar	fri	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.00
4	8	6	mar	sun	89.3	51.3	102.2	9.6	11.4	99	1.8	0.0	0.00
...	...	...	...	...	...	...	...	...	...	...	...	...	...
512	4	3	aug	sun	81.6	56.7	665.6	1.9	27.8	32	2.7	0.0	6.44
513	2	4	aug	sun	81.6	56.7	665.6	1.9	21.9	71	5.8	0.0	54.29
514	7	4	aug	sun	81.6	56.7	665.6	1.9	21.2	70	6.7	0.0	11.16
515	1	4	aug	sat	94.4	146.0	614.7	11.3	25.6	42	4.0	0.0	0.00
516	6	3	nov	tue	79.5	3.0	106.7	1.1	11.8	31	4.5	0.0	0.00

517 rows × 13 columns

a. Scatter Plot

In [17]:

```
sns.scatterplot(x='month', y='temp', data=df,hue='day')
plt.title('Scatter Chart')
plt.show()
```



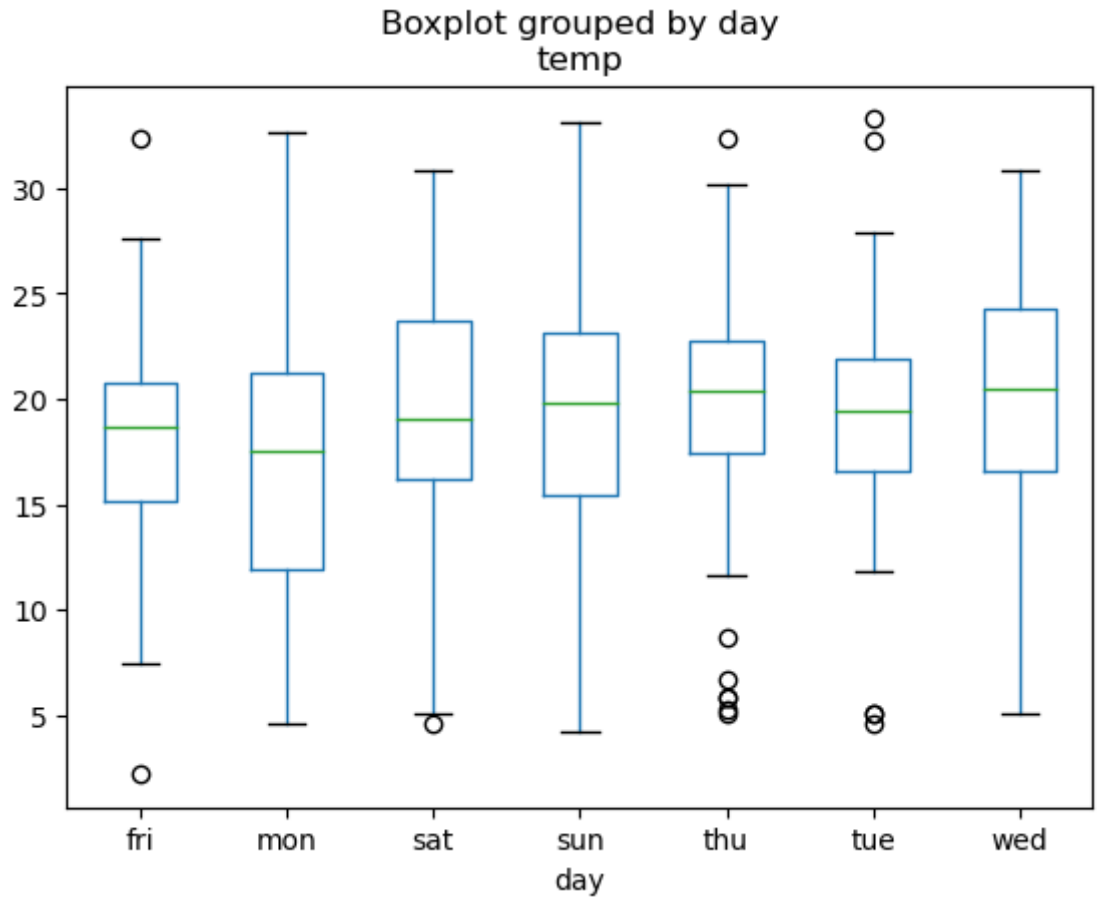
b. Box Plot

In [18]:

```
df.boxplot(by ='day', column =['temp'], grid = False)
```

Out[18]:

```
<Axes: title={'center': 'temp'}, xlabel='day'>
```



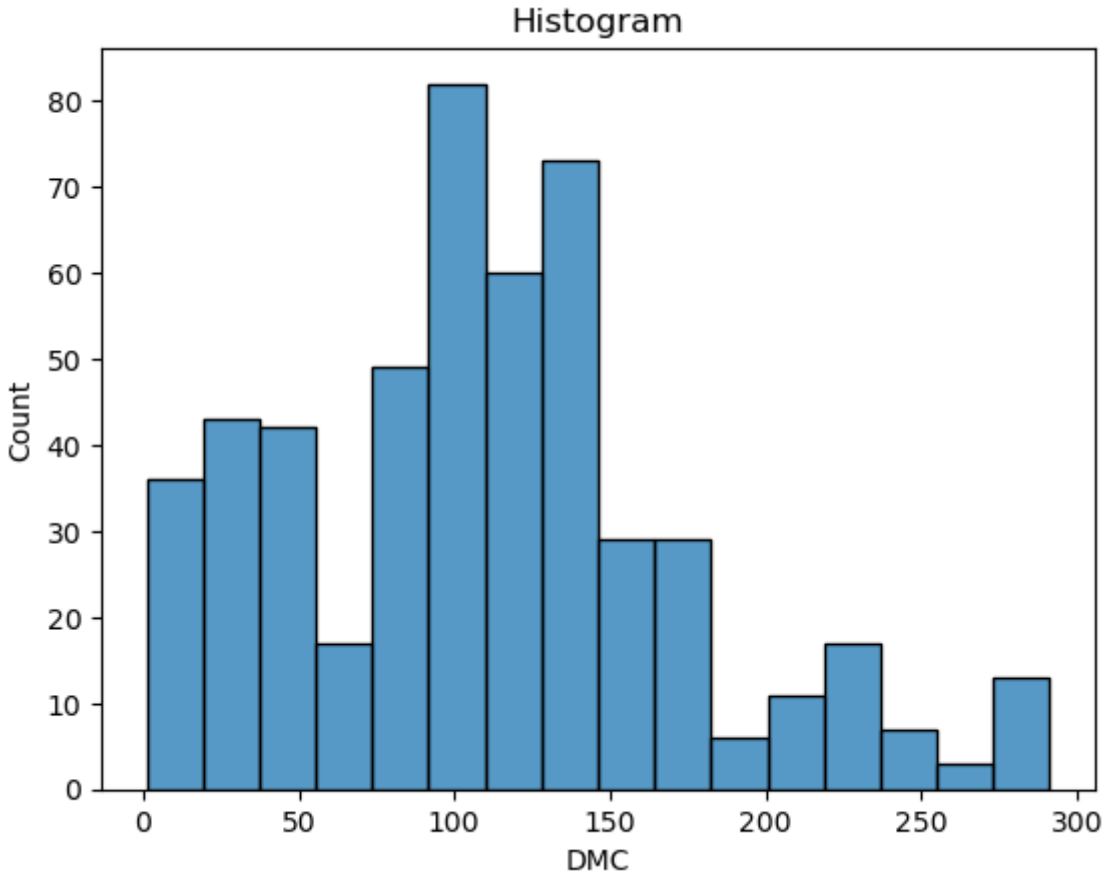
c. Histogram

In [20]:

```
# in seaborn the histplot attribute is use for ploting histogram
sns.histplot(df['DMC'])

plt.title("Histogram")

# Adding the legends
plt.show()
```



d. Pie Chart

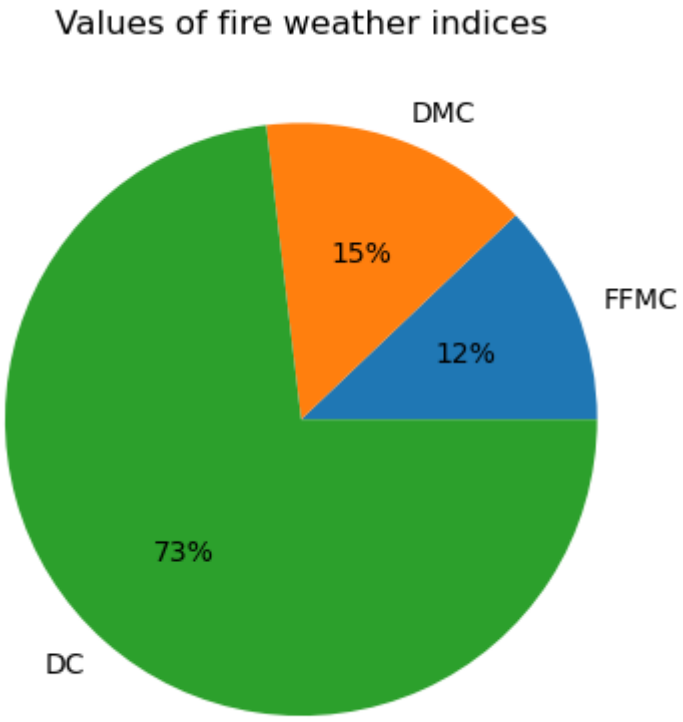
In [21]:

```
keys='FFMC','DMC','DC'
sizes=[df['FFMC'].sum(),df['DMC'].sum(),df['DC'].sum()]

# Plotting data on chart
plt.pie(sizes, labels=keys, autopct='%.0f%%')

# Add title to the chart
plt.title('Values of fire weather indices')

# Displaying chart
plt.show()
```



e. Line Chart

In [22]:

```
# draw lineplot
sns.lineplot(x="month", y="temp", data=df)

# setting the title
plt.title('Line Chart')

plt.show()
```