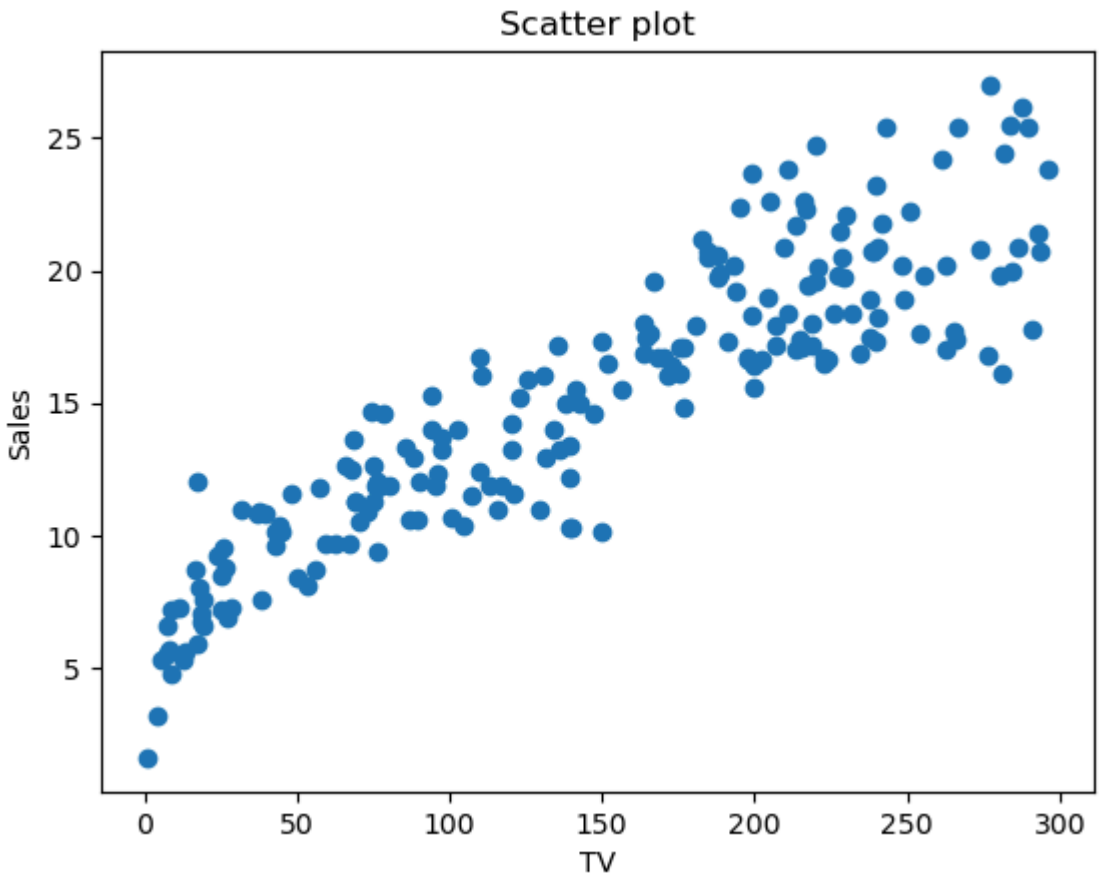
In [9]:
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

In [10]:
```
df= pd.read_csv("Advertising.csv")
df.info()
x=df['TV']
y=df['Sales']
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 200 entries, 0 to 199
Data columns (total 4 columns):
 #   Column     Non-Null Count  Dtype  
---  ------     --------------  -----  
 0   TV         200 non-null    float64
 1   Radio      200 non-null    float64
 2   Newspaper  200 non-null    float64
 3   Sales      200 non-null    float64
dtypes: float64(4)
memory usage: 6.4 KB
```

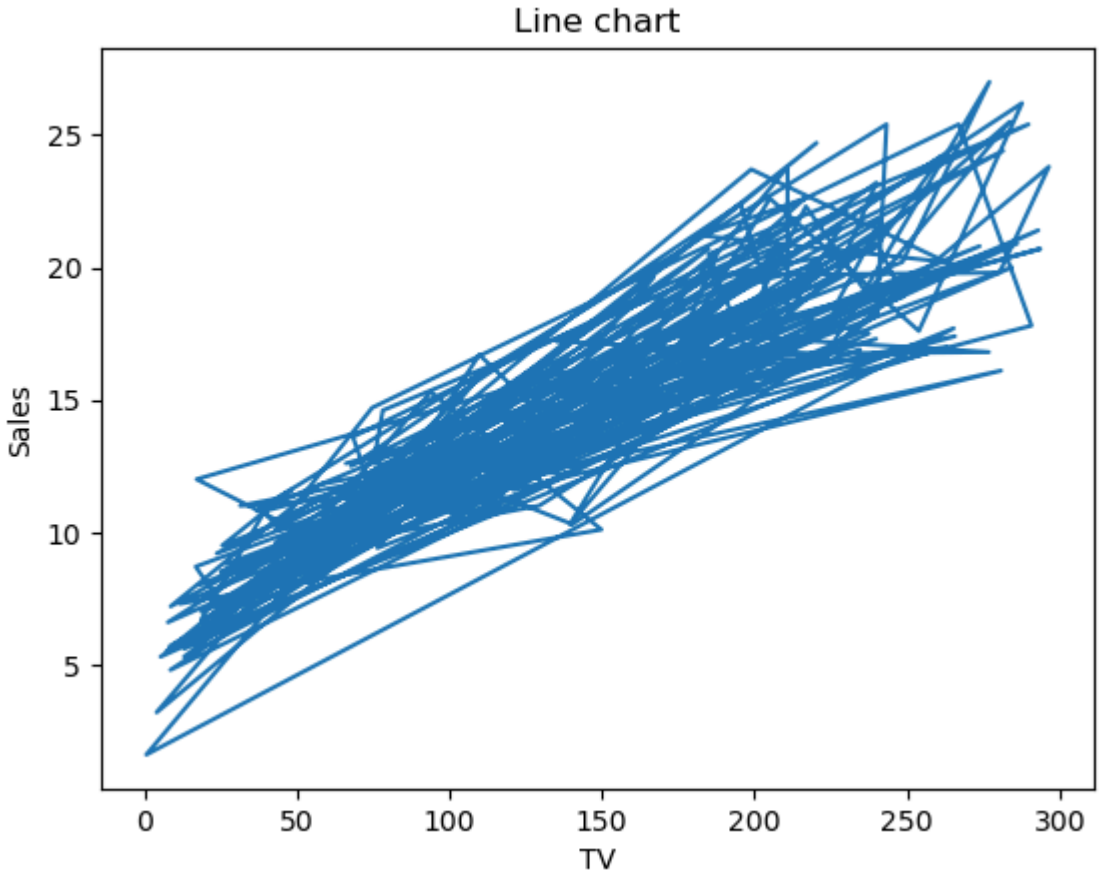
Scatter plot

In [11]:
```
plt.xlabel('TV')
plt.ylabel('Sales')
plt.title("Scatter plot")
plt.scatter(x,y)
plt.show()
```



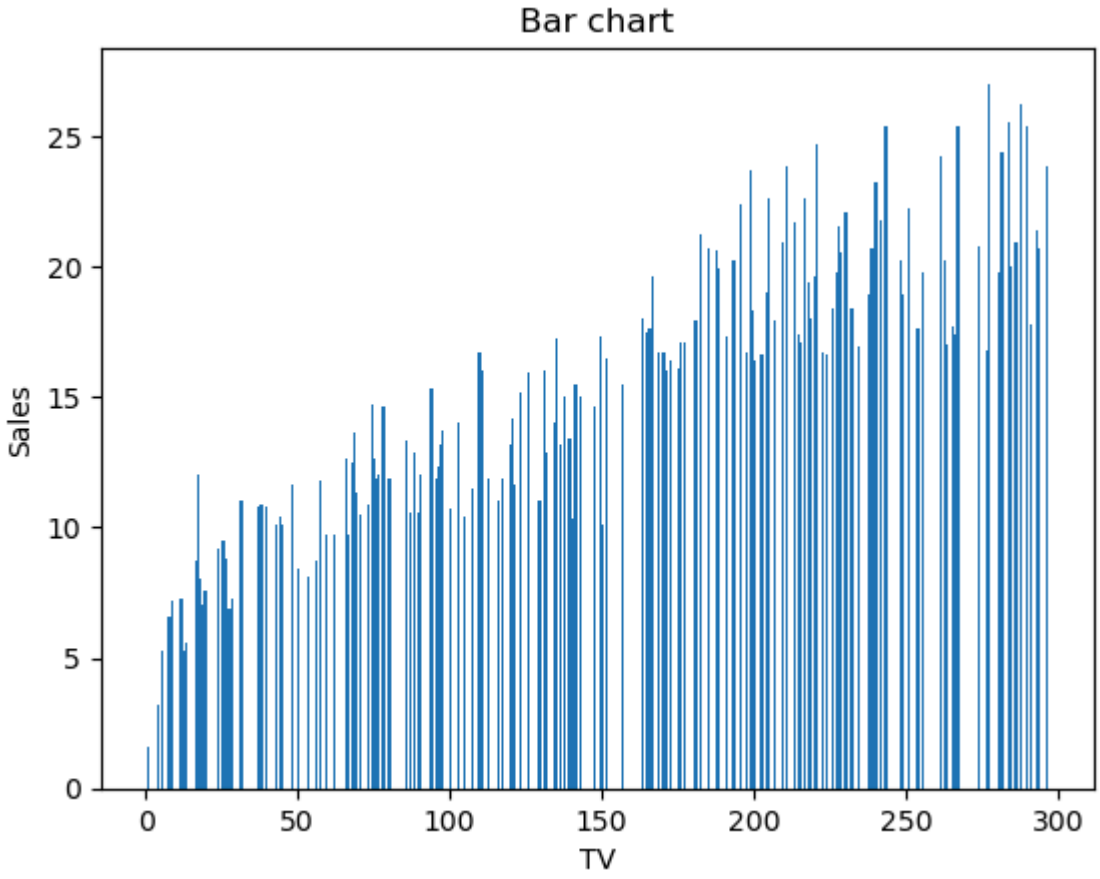
Line chart

In [12]:
```
plt.xlabel('TV')
plt.ylabel('Sales')
plt.title("Line chart")
plt.plot(x,y)
plt.show()
```



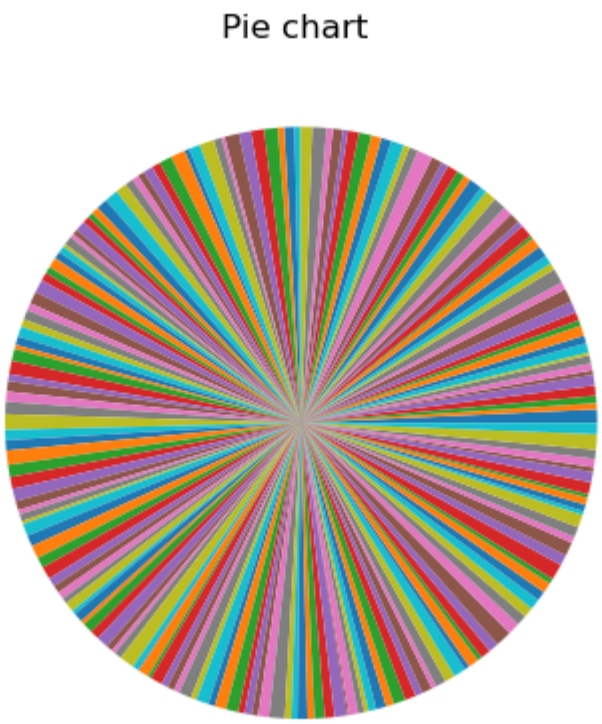
Bar chart

In [13]:
```
plt.xlabel('TV')
plt.ylabel('Sales')
plt.title("Bar chart")
plt.bar(x,y)
plt.show()
```



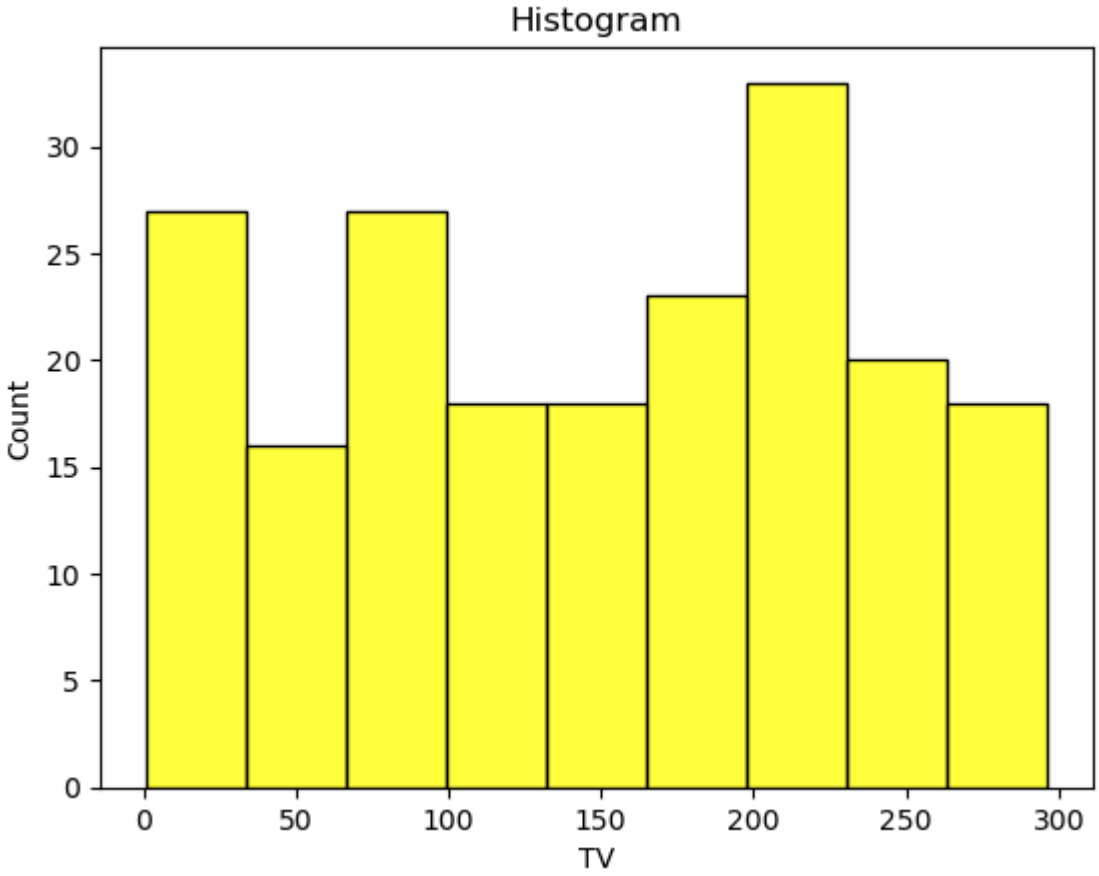
Pie chart

In [14]:
```
1 plt.title("Pie chart ")
2 plt.pie(y)
3 plt.show()
```



Histogram

In [15]:
```
plt.title("Histogram")
sns.histplot(df['TV'],color='yellow')
plt.show()
```



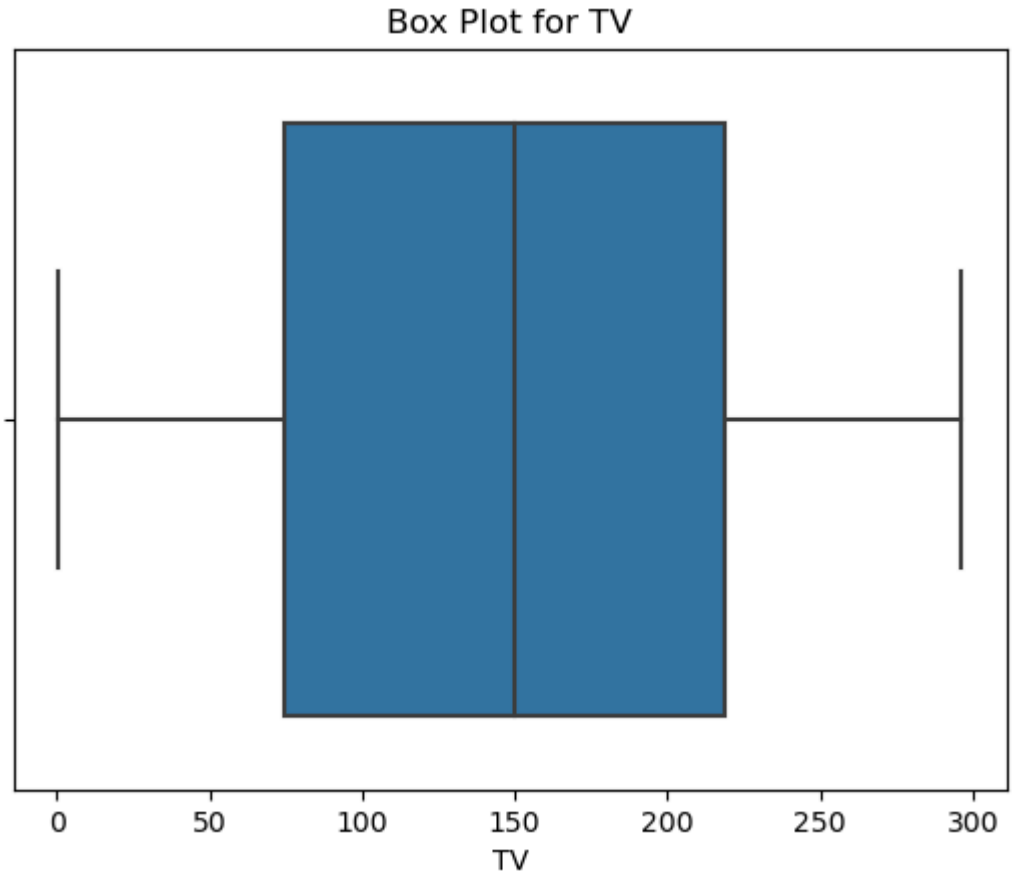
Box plot

In [16]:

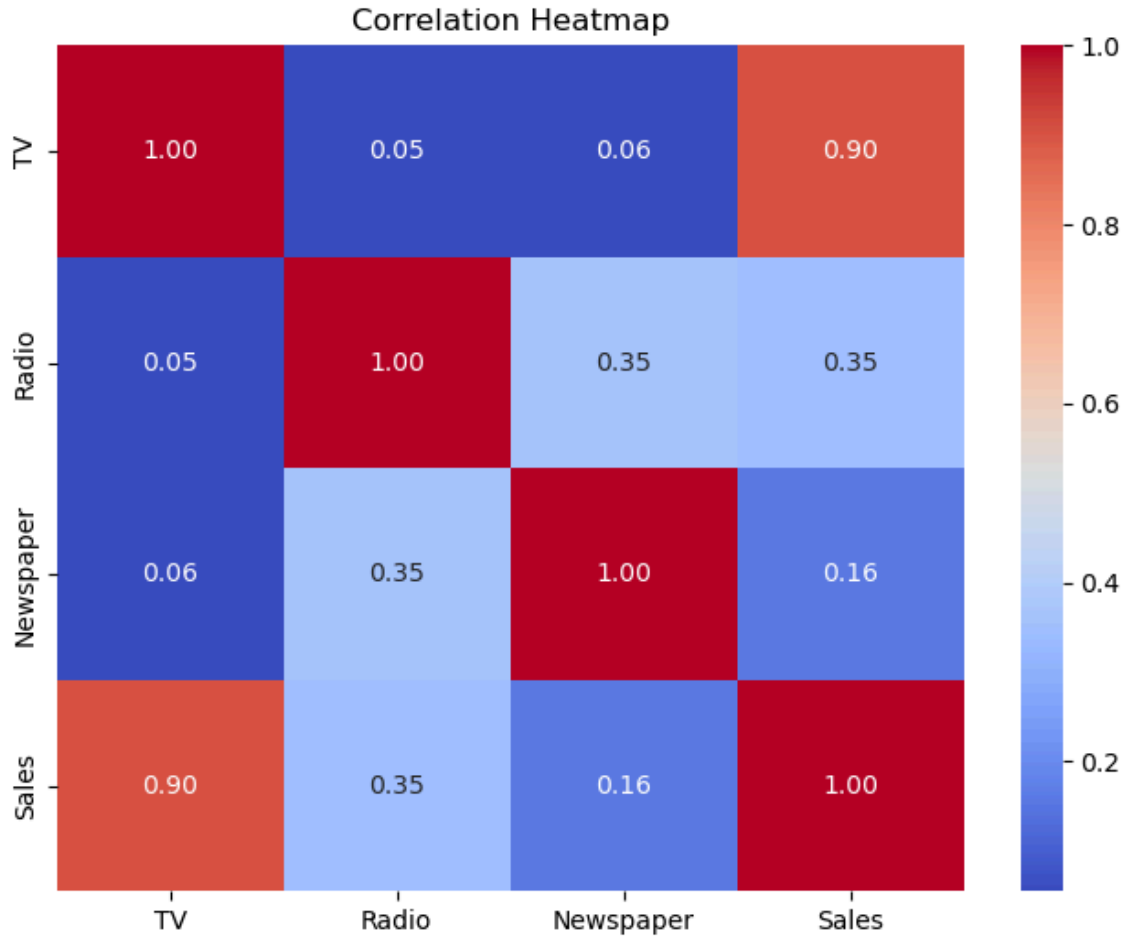
```
sns.boxplot(x='TV', data=df)

# Set labels and title
plt.xlabel('TV')
plt.title("Box Plot for TV")

# Show the plot
plt.show()
```



In [17]:
```
1 corr_matrix = df.corr()
2 plt.figure(figsize=(8, 6))
3 sns.heatmap(corr_matrix, annot=True, cmap='coolwarm', fmt=".2f")
4 plt.title('Correlation Heatmap')
5 plt.show()
```



In [ ]:
```
1
```