

In [1]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

In [2]:

```
data = pd.read_csv('C:/Users/Admin/Desktop/Raj/Sem-7/ML-Materials/Data_for_Transformati
on.csv')
data.head(5)
```

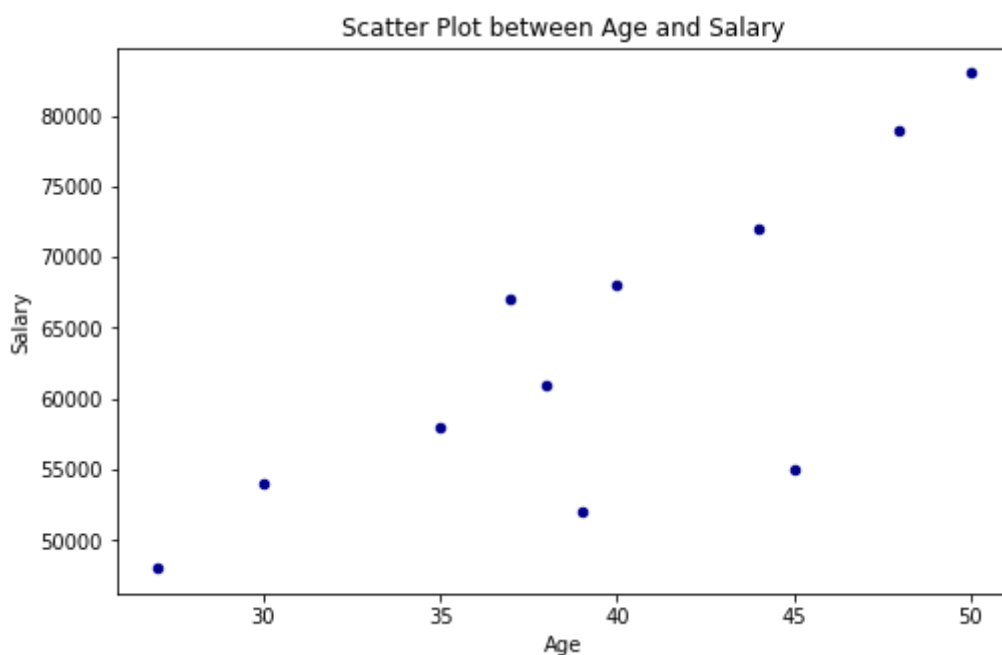
Out[2]:

	Country	Age	Salary	Purchased
0	France	44	72000	No
1	Spain	27	48000	Yes
2	Germany	30	54000	No
3	Spain	38	61000	No
4	Germany	40	68000	Yes

## 1). Draw Scatter Plot between age and salary for "Data\_for\_Transformation".

In [3]:

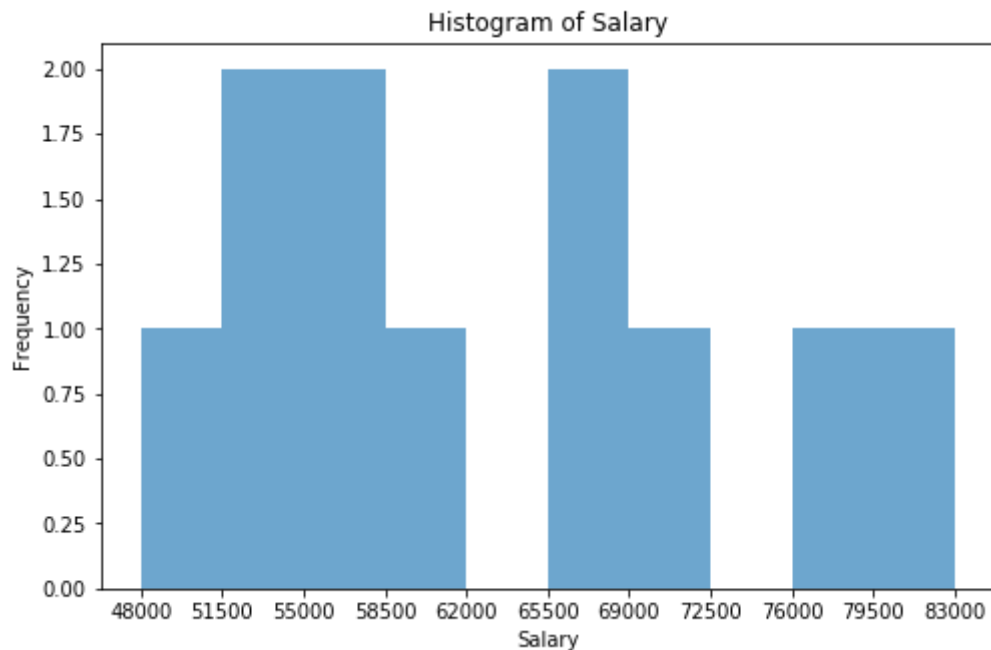
```
data.plot(kind='scatter',x='Age',y='Salary',figsize = (8,5),color='darkblue')
plt.title("Scatter Plot between Age and Salary")
plt.xlabel('Age')
plt.ylabel('Salary')
plt.show()
```



## 2). Draw Histogram of Salary.

In [4]:

```
count,bin_edges = np.histogram(data['Salary'])
data['Salary'].plot(kind='hist',figsize=(8,5),xticks=bin_edges,alpha=0.65)
plt.title("Histogram of Salary")
plt.xlabel("Salary")
plt.show()
```



## 3). Plot bar chart of Country

In [5]:

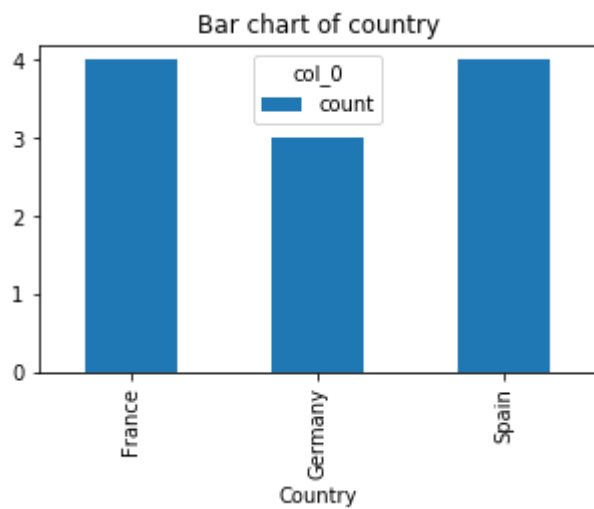
```
data_country = pd.crosstab(index = data['Country'],columns = ['count'],dropna=True)
data_country
```

Out[5]:

col_0	count
Country	
France	4
Germany	3
Spain	4

In [6]:

```
data_country.plot(kind='bar',figsize=(5,3))  
plt.title("Bar chart of country")  
plt.xlabel("Country")  
plt.show()
```



In [ ]: