```
import pandas as pd
import numpy as np


temp = pd.read_csv("/content/sample_data/dataset_Facebook.csv", sep=';')
print(temp.index)
temp


print(temp.columns)


print(temp.shape)


print(temp.describe())


#create subset
selective_df = temp[{'Category','like','share'}]
#print(selective_df)
print(selective_df.shape)

#print(selective_df['Category'].values)
#print(selective_df['like'].values)
print(np.unique(selective_df['like'].values).shape)


#reshaping
pivot_table = pd.pivot_table(selective_df, index= ['Category', 'like'])
print(pivot_table)
print(pivot_table.shape)


pivot_table.shape


pivot_table.reset_index(inplace=True)
pivot table
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pivot_table.melt(id_vars=['like','share'])


data1 = {'Name': ['Jai', 'Hari', 'Gaurav', 'Anuj'],
         'Age':[27, 24, 22, 32],
         'Address':['Nagpur', 'Kanpur', 'Allahabad','Kannada'],
         'Qualification':['Msc', 'MA', 'ME', 'Phd']}
data2 = {'Name': ['Jaya', 'Harish', 'Anuja', 'Tanuja'],
         'Age':[17, 14, 12, 42],
         'Address':['Nagpur', 'Kanpur', 'Allahabad','Kannada'],
         'Qualification':['Btech', 'BA', 'BSc', 'BArch']}
df = pd.DataFrame(data1, index=[0,1,2,3])
df1 = pd.DataFrame(data2, index=[4,5,6,7])
print(df, "\n\n", df1)


frames = [df, df1]
result = pd.concat(frames)
print(result)


df_new = pd.DataFrame(data1, index=[0,1,2,3])
df1 = pd.DataFrame(data2, index=[2,3,4,5])
#print(df, "\n\n", df1)

result2 = pd.concat([df_new, df1], axis=1, join='inner') #by index
print(result2)
result2 = pd.concat([df_new, df1], axis=1, join='outer') #by index
print(result2)


#Defining the dictionary
data1 = {'Key':['k0','k1','k2','k3'],
         'Name': ['Jai', 'Hari', 'Gaurav', 'Anuj'],
          'Age':[27, 24, 22, 32]}
data2 = {'Key':['k0','k1','k2','k3'],
         'Address':['Nagpur', 'Kanpur', 'Allahabad','Kannada'],
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          'Qualification':['Btech', 'BA', 'BSc', 'BArch']}

#convert the dictionary into dataframe
df = pd.DataFrame(data1)
df1 = pd.DataFrame(data2)

print(df, '\n\n', df1)

res = pd.merge(df, df1, on = 'Key')
res



cars = ['Ford', 'BMW', 'Volvo']
cars.sort()
print(cars)
#list.sort(reverse=True|False, key=myFunc)


df = pd.DataFrame({'Weight':[45, 88, 56, 15, 71],
                   'Name':['Sam', 'Andrea', 'Alex', 'Robin', 'Kia'],
                   'Age':[14, 25, 55, 8, 21]})
print(df)


# return the transpose
result = df.transpose()

# Print the result
print(result)
```

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