**Experiment No.: 1**

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**Batch: RMCA B**

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**Aim**

To implement Kmeans Algorithm

**Program and Output**

import seaborn as sns

from sklearn.datasets import make\_blobs

import matplotlib.pyplot as plt

from sklearn.preprocessing import StandardScaler

centers = 5

X\_train, true\_labels = make\_blobs(n\_samples=100, centers=centers, random\_state=42)

X\_train = StandardScaler().fit\_transform(X\_train)

sns.scatterplot(x=[X[0] for X in X\_train],

                y=[X[1] for X in X\_train],

                hue=true\_labels,

                palette="deep",

                legend=None

                )

plt.xlabel("x")

plt.ylabel("y")

plt.show()

**OUTPUT**

