import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import scipy

from scipy.cluster.hierarchy import fcluster

from scipy.cluster.hierarchy import cophenet

from scipy.spatial.distance import pdist

from google.colab import files

uploaded = files.upload()

import pandas as pd

import io

df = pd.read\_csv(io.BytesIO(uploaded['head.csv']))

print(df)

import sklearn

from sklearn.cluster import AgglomerativeClustering

k=3

Hclustering=AgglomerativeClustering(n\_clusters=k,affinity='euclidean',linkage='single')

Hclustering.fit(df)

Hclustering.fit\_predict(df)

print(Hclustering.labels\_)

x=df['Rice production']

y=df['Humidity']

n=range(1,14)

fig,ax=plt.subplots()

ax.scatter(x,y,marker='o',c=Hclustering.labels\_,cmap='rainbow')

plt.grid()

plt.xlabel("Rice production")

plt.ylabel("Rain Fall")

for i, txt in enumerate(n):

ax.annotate(txt,(x[i],y[i]))

plt.show()