**Write a Program for Fuzzy c-means clustering in Python.**

import numpy as np  
import skfuzzy as fuzz  
from skfuzzy import control as ctrl  
  
*# Generate some example data*np.random.seed(0)  
data = np.random.rand(100, 2)  
  
*# Define the number of clusters*n\_clusters = 3  
  
*# Apply fuzzy c-means clustering*cntr, u, u0, d, jm, p, fpc = fuzz.cluster.cmeans(  
data.T, n\_clusters, 2, error=0.005, maxiter=1000, init=None)  
  
*# Predict cluster membership for each data point*cluster\_membership = np.argmax(u, axis=0)  
  
*# Print the cluster centers*print('Cluster Centers:', cntr)  
  
*# Print the cluster membership for each data point*print('Cluster Membership:', cluster\_membership)