```
import pandas as pd
from sklearn.cluster import KMeans
# Load the customer data
data = pd.read_csv('mall_customers.csv')
# Create a class to represent a customer
class Customer:
 def __init__(self, customer_id, gender, age, income):
  self.customer_id = customer_id
   self.gender = gender
   self.age = age
   self.income = income
# Create a list of customers
customers = []
for i in range(len(data)):
 customer = Customer(data['customer_id'][i], data['gender'][i], data['age'][i], data['income'][i])
 customers.append(customer)
# Create a function to calculate the distance between two customers
def distance(customer1, customer2):
 return np.sqrt((customer1.age - customer2.age)**2 + (customer1.income - customer2.income)**2)
# Create a function to perform k-means clustering
def k_means_clustering(customers, k):
 kmeans = KMeans(n_clusters=k)
 kmeans.fit(customers)
 return kmeans.labels_
# Perform k-means clustering on the customers
labels = k_means_clustering(customers, 3)
# Print the cluster labels
print(labels)
```