MATLAB CODE for K-means Clustering

data=load('kclusteringtrain.txt');

[row,column]=size(data);

%let k=2;

k=2;

C=[];

for i=1:k

C(i,:)=data(i,:);

end

d=[];

for i=1:k

for j=1:row

d(i,j)=sqrt(sum((C(i,:)-data(j,:)).^2));

end

end

s=[];

l=d;

z=[];

for i=1:length(d)

[v,v1]=min(d(:,i));

d(:,i)=0;

d(v1,i)=1;

end

t=d+1;

while(t~=d)

siz=sum(d');

t=d;

C=d\*data;

for i=1:length(siz)

C(i,:)=C(i,:)/siz(i);

end

for i=1:k

for j=1:row

d(i,j)=sqrt(sum((C(i,:)-data(j,:)).^2));

end

end

l=d;

for i=1:length(d)

[v,v1]=min(d(:,i));

d(:,i)=0;

d(v1,i)=1;

end

end

d

OUTPUT:

d =

1 1 0 0

0 0 1 1