MATLAB CODE for HEIRARCHICAL CLUSTERING

data=load('Heirtrain.txt');

[row,column]=size(data);

di=Distmatrix(data);

df=[];

df1=1;

while(length(di)>2)

[k,l]=min1(di);

g=min(l,k);

g1=max(l,k);

rep=[];

b=1;

%df(df1,1)=g\*10+g1;

%df(df1,2)=g1;

%df(df1,3)=g;

%df1=df1+1;

%df=cluster1(df,g,g1);

disp(g\*10+g1)

for i=1:length(di)

%if(i~=l&&i~=k)

rep(b)=min(di(i,l),di(i,k));

b=b+1;

%end

end

di(g1,:)=[];

di(:,g1)=[];

rep(g1)=[];

di(g,:)=rep;

di(:,g')=rep';

df(df1,1)=[g];

df(df1,2)=[g1];

df1=df1+1;

end

disp('-----')

disp(df(1,:));

disp('-----')

gg=[(df(1,:))];

for i=2:length(df)

for j=1:length(gg)

if(df(i,1)==gg(j,1))

disp(gg(j,:))

disp(df(i,1))

gg(end+1,:)=df(i,:);

disp('-----')

break

elseif(df(i,2)==gg(j,1))

disp(gg(j,:))

disp(df(i,1))

gg(end+1,:)=df(i,:);

disp('-----')

break

else

if(i==length(df))

disp(df(i,:))

gg(end+1,:)=df(i,:);

disp(df(j,:))

disp('-----')

break

else

disp(df(i,:));

gg(end+1,:)=df(i,:);

disp('-----')

break

end

end

end

end

OUTPUT:

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4 6

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1 2

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4 6

3

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2 3

4 6

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