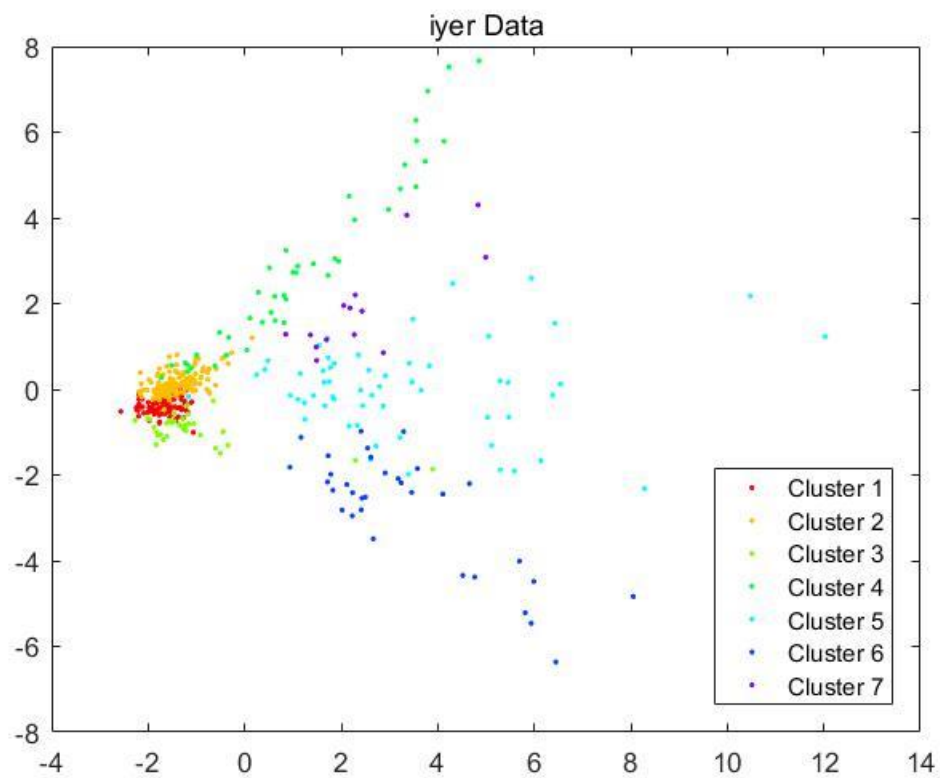
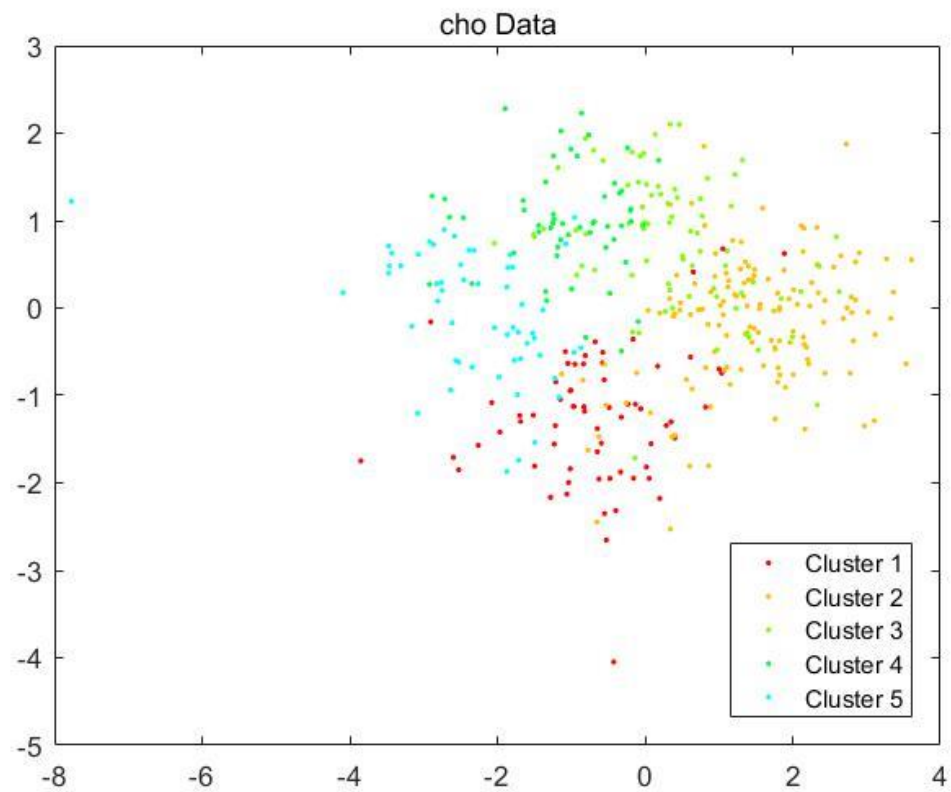


1) Two scatter plots



2) Core codes

```
function performPCA(path)

data=csvread(path);
clusterid=data(:,end);
features=data(:,1:end-1);
[coeff,score,latent]=pca(features);

szdim=size(data,2);
loop=max(data(:,end));
n=0;
cmap = hsv(8);

while n<loop
    index=find(clusterid==(n+1));
    cluster=score(:,1:2);
    cluster1=cluster(index,:);

plot(cluster1(:,1),cluster1(:,2),'.','color',cmap((n+1),:));
    hold on;
    legendinfo{n+1}=['Cluster ' num2str(n+1)];
    n=n+1;
end

legend(legendinfo,'Location','southeast');
nn=strsplit(path,'_');
nn2=nn{1};
nn3=' Data';
nn4=strcat(nn2,nn3);
title(nn4);

hold off;

end
```