Subplot command script

subplotting.m

```
X=1:10;
Y=randn(size(X));
Z=X.^2;
W=rand(size(X));
subplot(2,2,1)
plot(X,Y)
subplot(2,2,2)
plot(X,Z)
subplot(2,2,3)
plot(X,W)
```

Using gtext to insert text using cursor

plotasthetics.m

```
% learn plot asthetics
X=0:.1:10;
Y=2*X.^2;
plot(X,Y)
gtext("labeling at any location")
% put lable using cursor
```

Using holdon to create multiple plot on same figure

multipleplot.m

```
X=linspace(0,2*pi,50);
Y=sin(X);
Z=cos(X);
plot(X,Y,'r')
hold on
plot(X,Z,'b o')
legend('cosX','sinX')
hold off
```

Command Window

Multiple plot on same figure using plot

multipleplot2.m

```
X=linspace(0,2*pi,50);
Y=sin(X);
Z=cos(X);
plot(X,Y,'r x',X,Z,"b o")

```

Pie plot

plotting_pie.m

```
% A typical pie chart
X=rand(1,5)*1000;
Y= {"Entertainment", 'Food' ,"Transportation","Health","Stationary"};
pie(X,Y)
figure
Z=[0,1,0,0,0];
pie(X,Z,Y)
```

Histogram

plotting_pie.m | histogram.m

```
marks=round(rand(1,50),2)*50;
hist (marks,7)
title("Marks Distribution")
xlabel("marks range")
ylabel('no of students')
hold on
[n,X]=hist(marks,7)
plot(X,n)
hold off
```

Command Window