sample.m

```matlab
1  clc
2
3  close all
4
5  clear all
6
7  X=input("Enter the values of 'X' in columns");
8  Y=input("Enter the values of 'Y' in columns");
9  p=[X Y];
10
11 [m,n]=size(p);
12
13 A=[p(1,1) 1];
14 for i=2:m
15     A=[A;p(i,1) 1];
16 end
17
18 X=p(:,1);
19 Y=p(:,2);
20 B=p(:,2);
21 scatter(X,Y);
22
23 x=pinv(A)*B;
24 a=zeros([2,1]);
25 for i=1:2
26     a(i,1)=x(i,1);
27 end
28
29 X1=0:0.1:5;
30 Y1=a(1,1)*X1 + a(2,1);
31 hold on;
32 plot(X1,Y1,"r");
33
34
```