

%Interpolation,Problem 3

close all; clear all; clc;

n=input('Number of data points:');

for i=1:n

 x(i)=input('x value:');

 y(i)=input('y value:');

end

interp_mode=input('Press 1 for linear and 2 for polynomial:');

xn=x(1):0.1:x(end);

if interp_mode == 1

 yn = linear_interp(x,y,xn);

else

 yn = polynomial_interp(x,y,xn);

end

plot(x,y,'o',xn,yn);