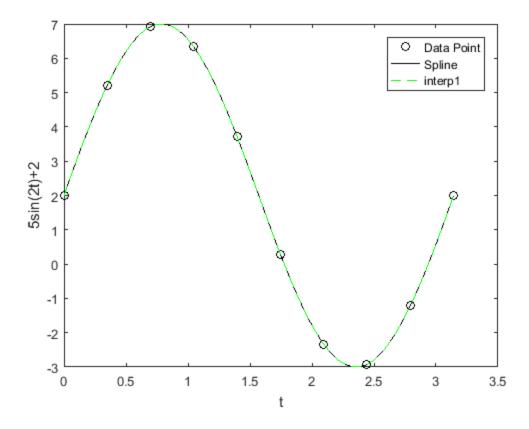
```
function problem2
%Navneet Singh( nsinghl@andrew.cmu.edu)
%HW-5 Prb2
clc
         %clear screen
clear all %clearing all stored variables
close all %close previous plots
%generating 10 points between 0 and pi
x = linspace(0, pi, 10);
y(:,:) = 5*sin(2*x) + 2;
%Resolution of 1000 points
xx = linspace(0, pi, 1000);
%using spline fit
y_spline = spline(x, y, xx);
%using interp1 with spline
y_interp = interp1(x,y, xx, 'spline');
%plotting
plot(x,y,'ko',xx,y_spline,'k-',xx,y_interp,'g--');
legend('Data Point', 'Spline', 'interp1')
xlabel('t')
ylabel('5sin(2t)+2')
%As it is evident from the graph below, there isn't any difference
between
%two results.
end
```



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