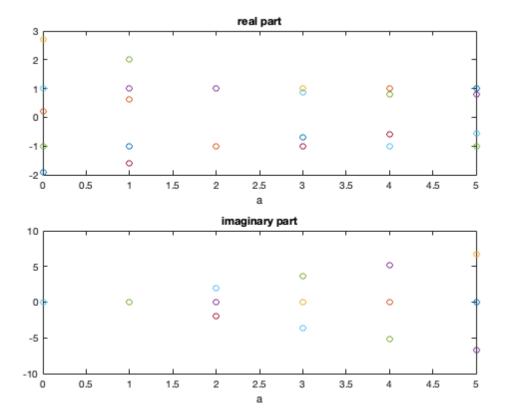
```
% question 1
for a=0:5
   M = eye(6);
   M(1:7:end)=0;
   M(1,2)=1;
   M(2,1)=1;
   M(3,3)=1;
   M(4,5)=1;
   M(5,4)=1;
   M(6,6)=1;
   M(2,3)=2;
   M(3,2)=2;
   M(5,6)=6;
   M(5,6)=1;
   M(1,3)=a;
   M(3,1)=-a;
   M(3,6)=a;
   M(6,3)=-a;
    subplot(2,1,1)
   plot(a,real(eig(M)),'o');
   hold on
   xlabel('a');
   title('real part')
    subplot(2,1,2)
   plot(a,imag(eig(M)),'o')
   hold on
   xlabel('a');
    title('imaginary part')
end
```



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