

Problem 2:

```
clearall;
closeall;

Signals=xlsread('p_10_2.xls');
I = Signals(1:1000,1);
II = Signals(1001:2000,1);
III = Signals(2001:3000,1);
IV = Signals(3001:end,1);

figure;plot(I);
figure;plot(II);
figure;plot(III);
figure;plot(IV);

[dwtCoefdwtLen] = wavedec(I, 2, 'db2');
[dc1 dc2] = detcoef(dwtCoef, dwtLen, [1 2]);
figure;plot(dc2);

[dwtCoefdwtLen] = wavedec(II, 2, 'db2');
[dc1 dc2] = detcoef(dwtCoef, dwtLen, [1 2]);
figure;plot(dc2);

[dwtCoefdwtLen] = wavedec(III, 2, 'db2');
[dc1 dc2] = detcoef(dwtCoef, dwtLen, [1 2]);
figure;plot(dc2);

[dwtCoefdwtLen] = wavedec(IV, 2, 'db2');
[dc1 dc2] = detcoef(dwtCoef, dwtLen, [1 2]);
figure;plot(dc2);
```
