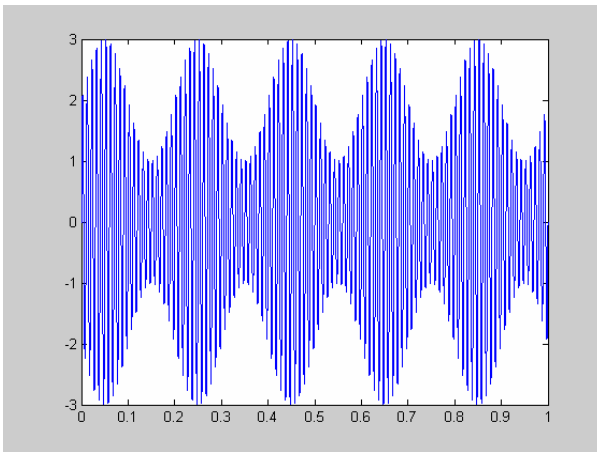


Programs maxima and minima

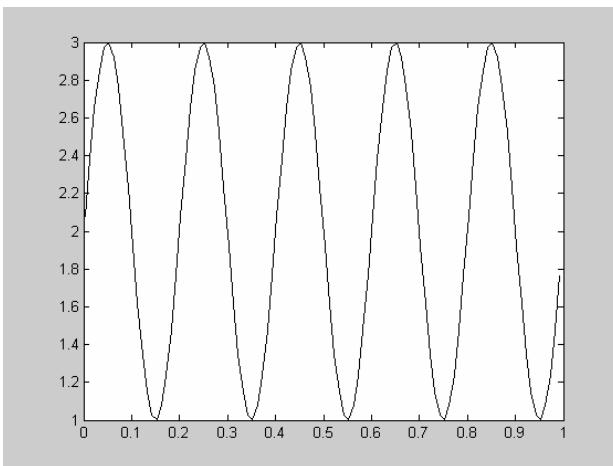
These are two similar programs. They operate to find coordinates and indices of extreme points in a set of data. If the data is some amplitude modulated signal y , `maxima(y,t)` will produce the upper modulation envelop while `minima(y,t)` will produce the lower modulating envelop.

Example

```
t=0:10^-4:1;  
y=(2+sin(2*pi*5*t)).*sin(2*pi*100*t);    % partially modulated signal  
plot(t,y)
```



```
[tt,yy,kk]=maxima(t,y)           % will give
```



The coordinates of maximum points are in `tt` and `yy` the indices of these point in the original signal `y` are represented in `kk`

`minima(t,y)` does a similar job on lower extreme points