

## BIL113E - Quiz 2

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### maxii.m – Function M-file:

```
function [thmax,hmax] = maxii(v0,theta)
g = 9.81;
thmax = (v0.*sind(theta))/g;
hmax = ((v0.*sind(theta)).^2)/(2*g);
end
```

### results.m - Script M-file:

```
cond = input('Input 1 for the time, input 2 for the highest
point= \n');
v0 = [10:1:20]; theta = [30:1:40];
[thmax,hmax] = maxii(v0,theta);
if cond == 1
    fprintf('The time which projectile reach the highest point
is\n');
    disp(thmax)
else if cond == 2
    fprintf('The highest point projectile can reach
is\n');
    disp(hmax)
else
    fprintf('You input wrong value, please input 1 or
2\n');
end
end
```