

**BIL113E - Quiz 2**  
**CRN: 30156**

**Name-Surname:** Serkan Burak Örs  
**Student ID:** 110190735

**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
```