

# Functions and scripts

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### Ex. 1: Basic function

```
t = 3:3:30;  
t'
```

```
ans = 10x1  
     3  
     6  
     9  
    12  
    15  
    18  
    21  
    24  
    27  
    30
```

```
fprintf('The mean of the given vector is: %.2f' , mymean(t))
```

The mean of the given vector is: 16.50

### Ex. 2: Function with multiple input parameters

```
%  $x^2 + 2x + 1 = 0$ 
```

```
a = 1;  
b = 2;  
c = 1;  
quadratic(a, b, c)
```

The equation has only one real roots  
-1

```
%  $x^2 - 3x = 0$ 
```

```
a = 2;  
b = 5;  
c = 3;  
quadratic(a, b, c)
```

The equation has two real roots  
-1  
  
-1.5000

```
%  $5x^2 + 2x - 1 = 0$ 
```

```
a = 5;  
b = 2;
```

```
c = -1;  
quadratic(a, b, c)
```

The equation has two real roots  
0.2899  
-0.6899

```
% 5x^2 + 2x + 1 = 0
```

```
a = 5;  
b = 2;  
c = 1;  
quadratic(a, b, c)
```

Delta < 0. The equation does not have a real root