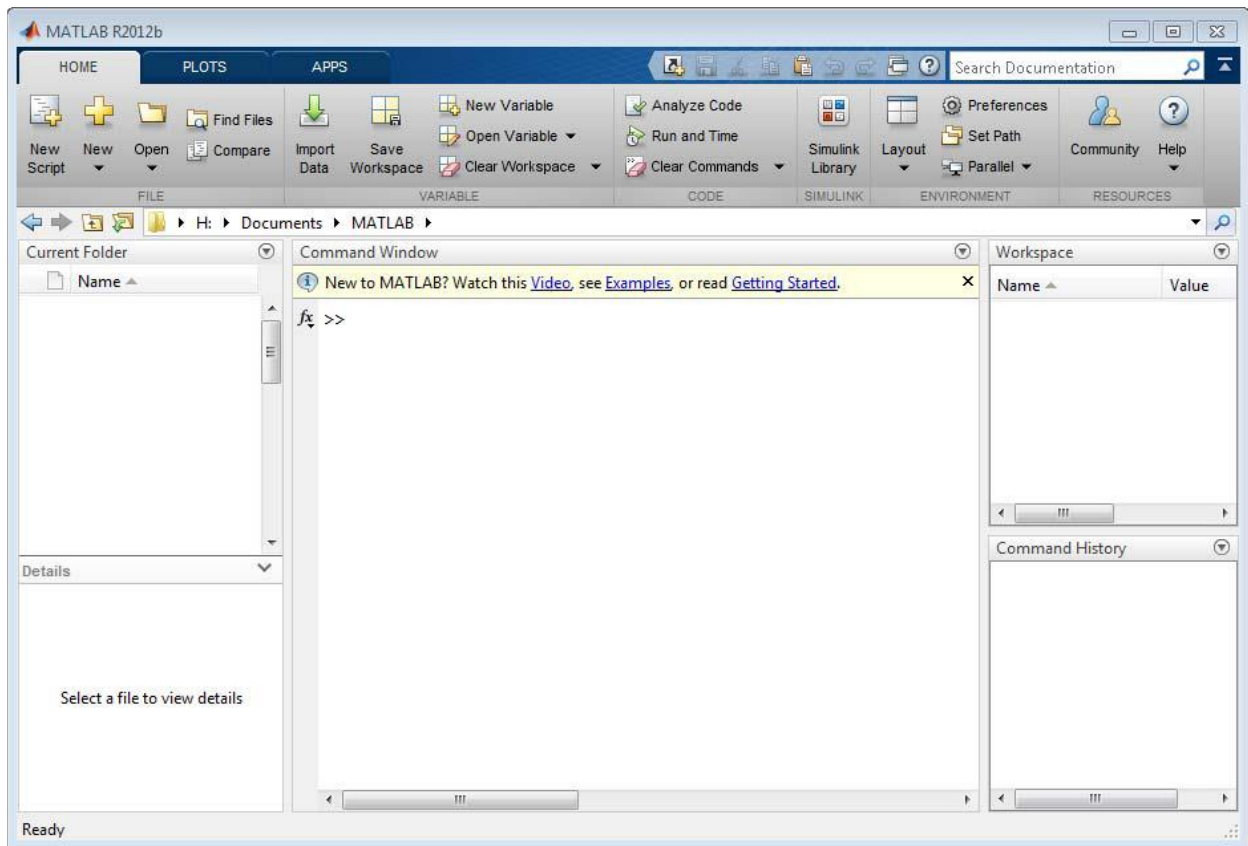


Class # 1

Matlab Desktop Basics



Workspace			
Name	Value	Min	Max
A	<4x4 double>	1	16
B	<3x5x2 double>	0.0318	0.9597

Code:

Matlab as a calculator

```
2+3
7-5
(3+4)*2
3^2
log( 4.5)
format long
log( 4.545677)
    1.514176671432253
format short
log( 4.545677)
    1.5142
exp(1)
sin(0)
cos(0)
cos(pi)
pi
    3.1416

Artur_number = 10
Artur_number + 2
    12
Artur_number = 20
Artur_number + Artur_number

clear all

Artur_number = 20
Zac_number = 80
Zac_number + Artur_number
    100

12/0
    Inf

0/0
    NaN

1A=5
1A=5
|
Error: Unexpected MATLAB expression. (name of variable cannot start with number)

A1=5
```

```
artur number = 3
```

```
Undefined function 'artur' for input arguments of type 'char'. (name of variable cannot have spaces)
```

```
pi
```

```
3.1416
```

```
pi = 30
```

```
pi+2
```

```
32
```

```
clear all
```

```
pi
```

```
3.1416
```

```
pi = 20
```

```
pi2 = 45
```

```
clear pi2
```

Vectors

```
a = [2 3 4 5 ]
```

```
a+2
```

```
4 5 6 7
```

```
a / 2
```

```
1.0000 1.5000 2.0000 2.5000
```

```
a + a
```

```
4 6 8 10
```

```
b=[1 2 3 4]
```

```
a+b
```

```
3 5 7 9
```

```
c = a + b
```

```
3 5 7 9
```

```
b=[1 2 3 ]
```

```
a+b
```

```
Error using +. Matrix dimensions must agree.
```

Logical variables:

5>4

1

5 < 4

0

log_var = 5 > 4

1

log_var = 5 < 4

0

[6 3 5] > 5

1 0 0

[6 3 6] > 5

1 0 1

5 == 3 % checking logical condition

0

5 = 3 **Error: The expression to the left of the equals sign is not a valid target for an assignment.**

5 ~= 3

Exercises:

v = [2 2 4 4] , make it [4 4 6 6]

v = v+2

a = [2 3 4]

b = [3 4 5]

Make c = [2 3 4 3 4 5]

c=[a b]