

Ahsanullah University of Science and Technology

LAB REPORT

Course No: *EEE3110*

Course Name: *Numerical Technique Laboratory*

Exp No:01

*Exp Name: Introduction to **MATLAB**(Part I)*

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 - ID: *190205121*
- Year: 3 , Semester: 1
 - Section: B-2
- Department of *EEE*.

MATLAB R2020a

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FILE NAVIGATE EDIT BREAKPOINTS RUN

Current Folder: C:\Users\User\Desktop\MATLAB

Editor: C:\Users\User\Desktop\MATLAB\ex1.m

```

1 - y=log(sinh(exp(54^3/6*pi)));

```

Workspace:

Name	Value
y	inf

Command Window:

New to MATLAB? See resources for [Getting Started](#).

```

>> ex1
Unrecognized function or variable 'ln'.

Error in ex1 (line 1)
y=ln(sinh(exp(54^3/6*pi)));

>> ex1
>> ex1

```

ex1.m (Script)

UTF-8 script Ln 1 Col 6

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FILE NAVIGATE EDIT BREAKPOINTS RUN

Current Folder: C:\Users\User\Desktop\MATLAB

Editor: C:\Users\User\Desktop\MATLAB\exp2.m

```

1 - clear all
2 - tic
3 - A=[1 2 3;4 5 6;7 6 54;65 23 45];
4 - B=[7;1;13;5];
5 - a_size=size(A);
6 - a_length=length(A);
7 - b_size=size(B);
8 - b_length=length(B);
9 - %1st way of define submatrix
10 - x=A(1:2,1:3);
11 - %2nd way of define submatrix
12 - y=A([1 2],[2 3]);
13 - %assign a new value A(1,1)
14 - A(1,1)=min(5);
15 - new_A = A;

```

Workspace:

Name	Value
A	4x3 double
a_length	4
a_size	[4,3]
B	7x1 double [7.8,10.11,12,13]
b_length	7
b_size	[1,7]
new_A	4x3 double
x	[2,3,6]
y	[2,3,6]

Command Window:

New to MATLAB? See resources for [Getting Started](#).

```

b_length =
     7

x =

     2     3
     5     6

y =

     2     3
     5     6

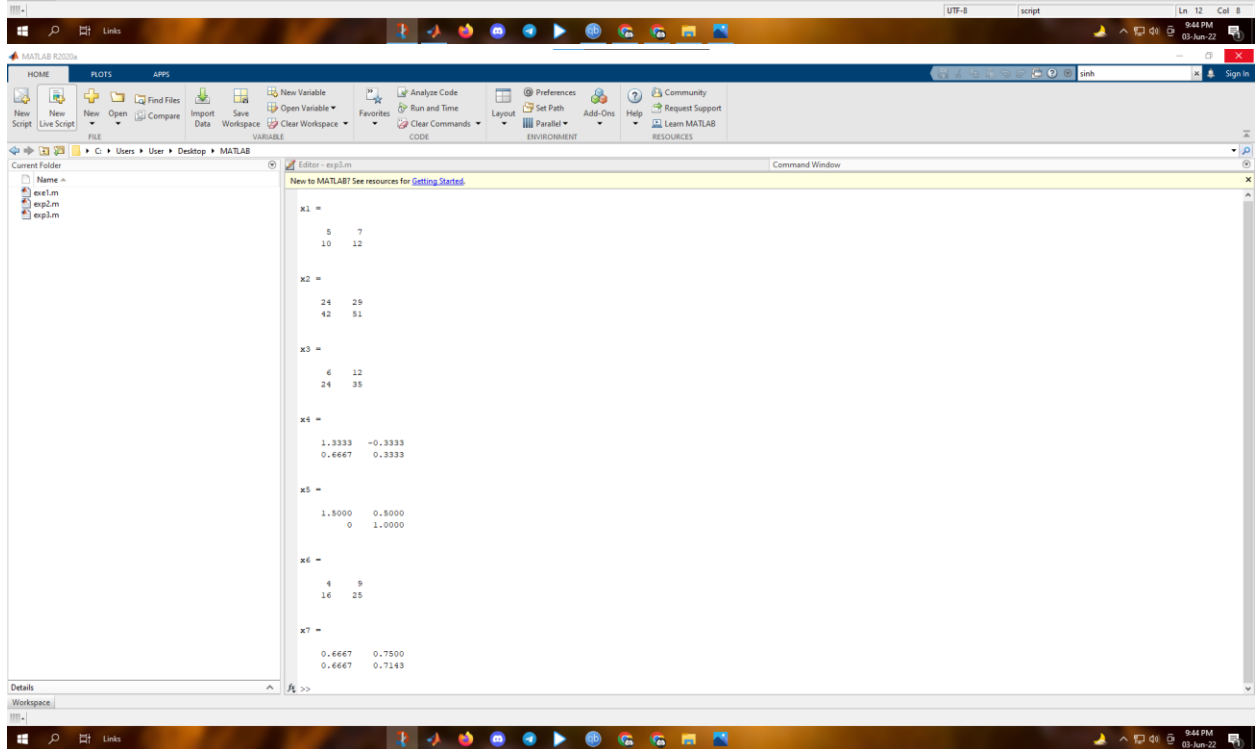
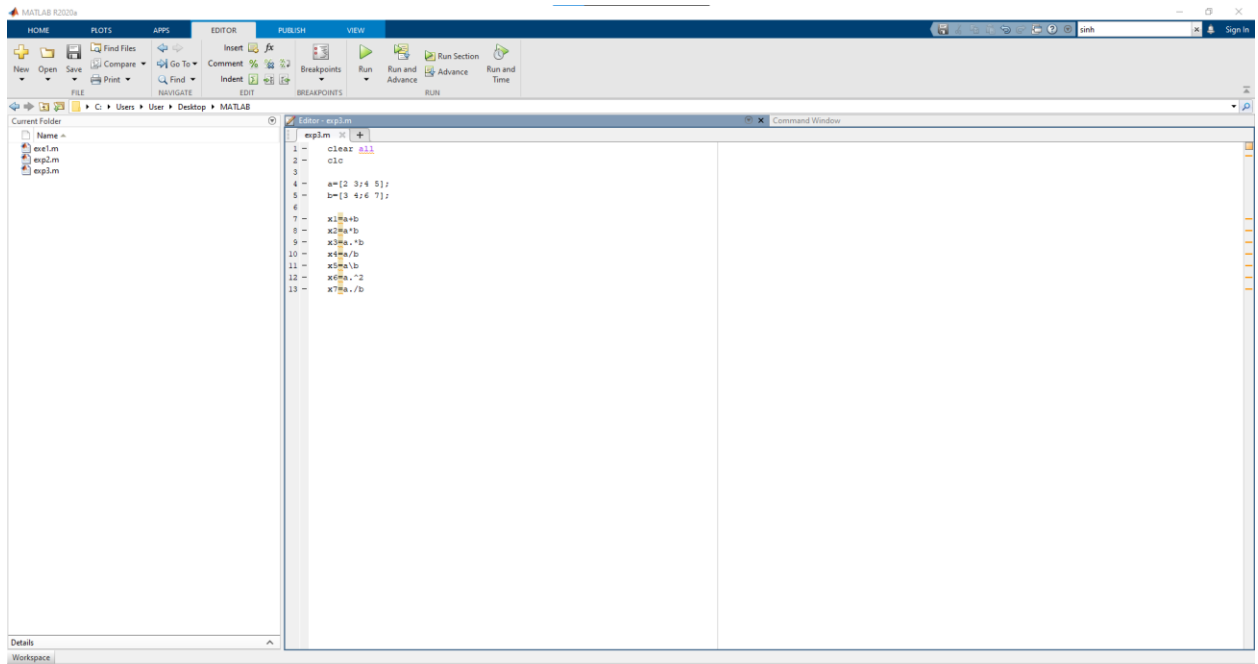
new_A =

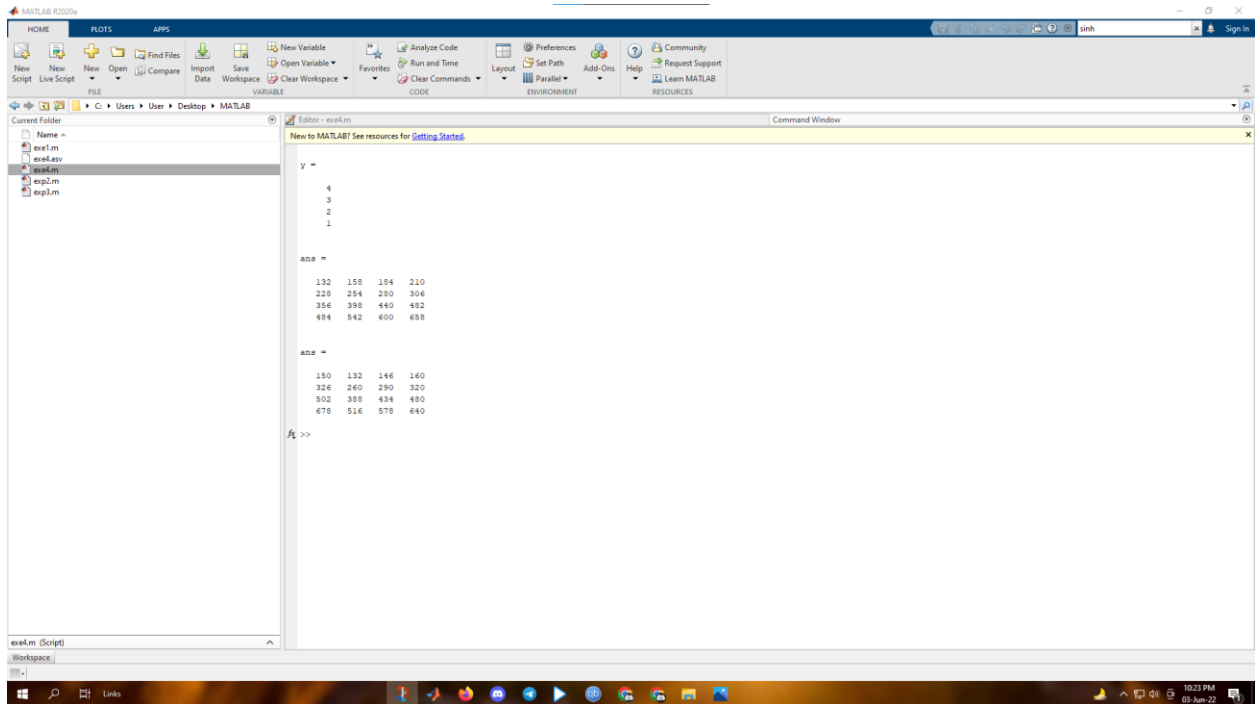
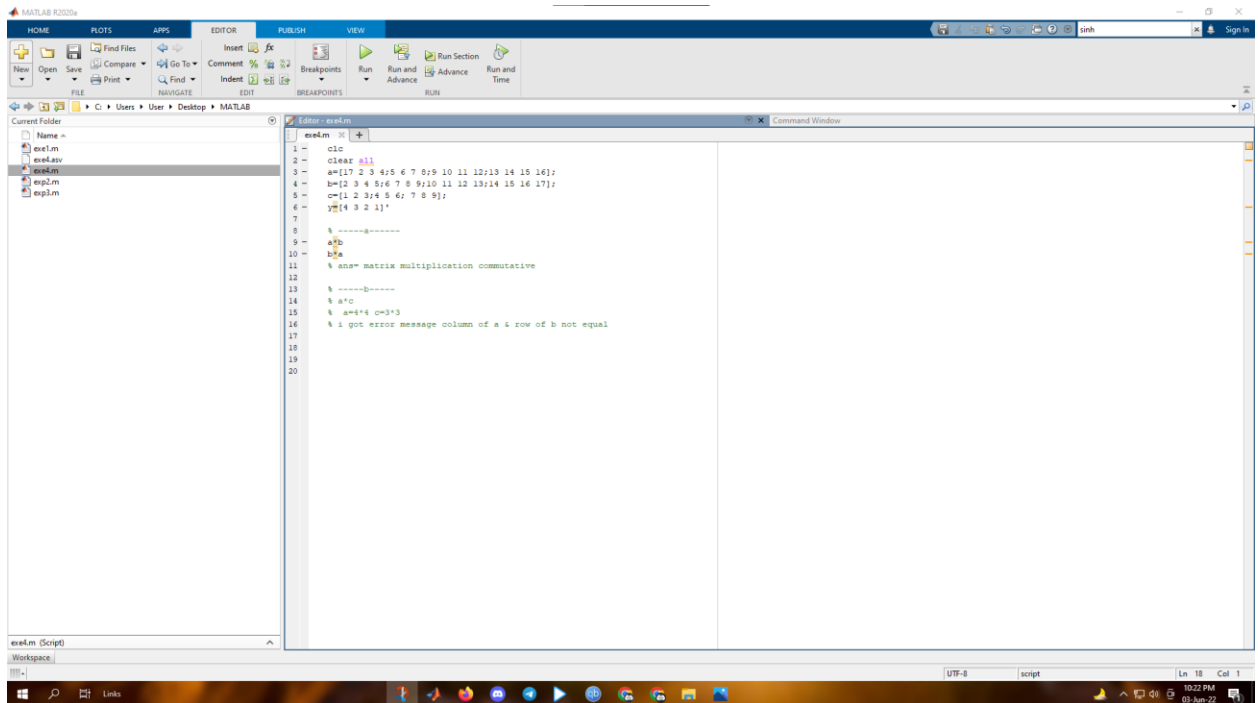
    -0.9589    2.0000    3.0000
     4.0000    5.0000    6.0000
     7.0000    6.0000    14.0000
    65.0000   23.0000   45.0000

```

exp2.m (Script)

UTF-8 script Ln 16 Col 1





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FILE NAVIGATE EDIT BREAKPOINTS RUN

Current Folder: C:\Users\User\Desktop\MATLAB\exe4_c.m

Editor: C:\Users\User\Desktop\MATLAB\exe4_c.m

```
1 = c1=az;
2 = o1o
3 %x=[x1;x2;x3;x4];
4 a=[17 2 3 4;5 6 7 8;9 10 11 12;13 14 15 16];
5 b=[14;13;12;11];
6 x = linspace(a,b);
7
8 = x1*x(1);
9 = x2*x(2);
10 = x3*x(3);
11 = x4*x(4);
```

Command Window

New to MATLAB? See resources for [Getting Started](#)

```
x =
    0.0000
    9.3045
   -23.6091
   14.0545

x1 =
  1.4629e+15

x2 =
    9.3045

x3 =
   -23.6091

x4 =
   14.0545
```

exe4_c.m (Script)

Workspace

UTF-8 script Ln 6 Col 19

10:41 PM 03-Jun-22