ARITHMETIC OPERATIONS

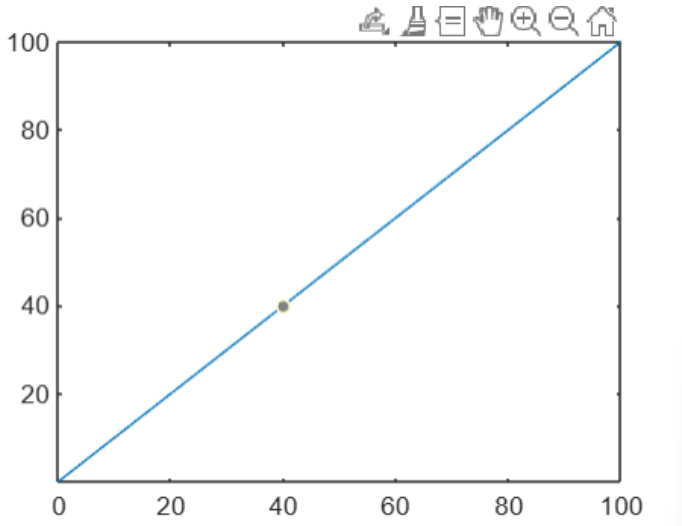
```
a=10;
b=20;
c=a+b
d=a-b
e=a*b
f=a/b

c =

    30


d =

   -10


e =

   200


f =

    0.5000


u=2;
v=4;
z=u^v

z =

    16


a=20;
b=40;
c=plus(a,b)
d=minus(a,b)
e=times(a,b)

c =

    60


d =

   -20


e =

   800
```

MATRIX

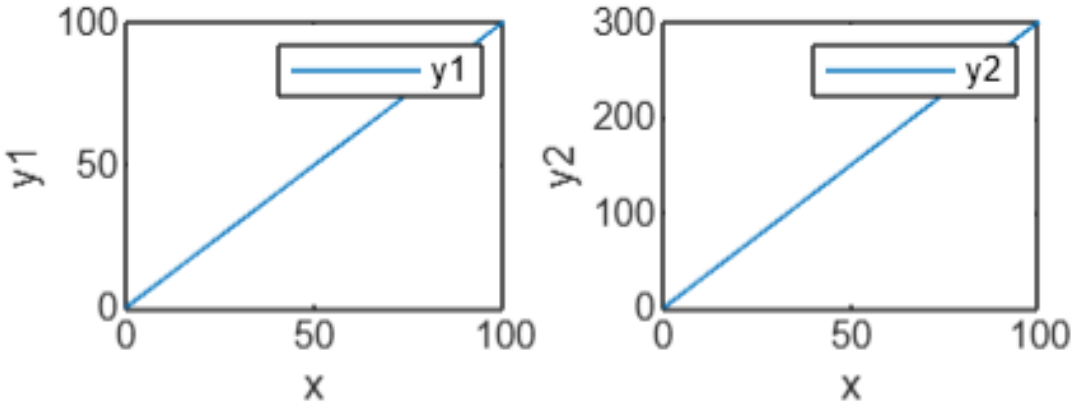
```
A=[2 2;4 4]

A =

     2     2
     4     4


B=[7 13;3 10]

B =

     7    13
     3    10

e=A*B
e =

    20    46
    40    92


f=A.*B

f =

    14    26
    12    40

g=A./B

g =

    0.2857    0.1538
    1.3333    0.4000
```

PLOTTING GRAPH

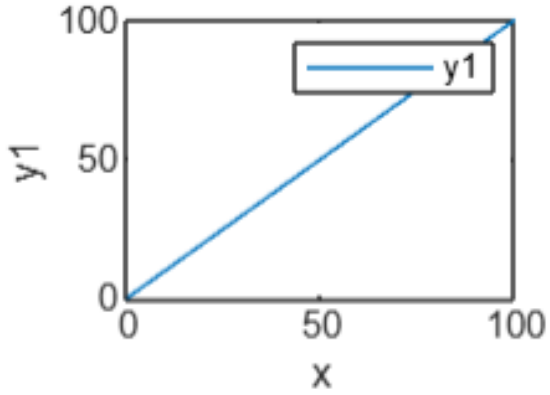
```
x = 0:5:100;
y = x;
plot(x, y);
```

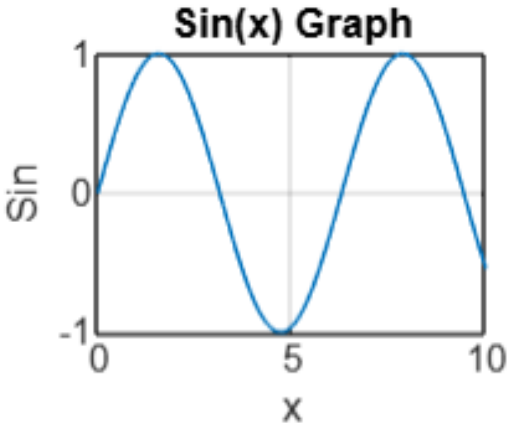



```
clc;
clear;
x = 0:5:100;
y1 = x;
y2=3*x;
subplot(2,2,1);
plot(x, y1);
xlabel('x');
ylabel('y1');
legend('y1');
subplot(2,2,2);
plot(x,y2);
xlabel('x');
ylabel('y2');
legend('y2');
```




```
x = 0:0.01:10;
y = sin(x);
plot(x, y);
xlabel('x');
ylabel('Sin');
title('Sin(x) Graph');
grid on;
```






```
x = [0 : 0.01: 10];
y = sin(x);
g = cos(x);
plot(x, y, '*', x, g, '.-');
legend('Sin(x)', 'Cos(x)');
```