a=5;

b=10;

s=a+b;

q=a/b;

d=a-b;

p=a\*b;

c=a^2;

r=a^(2/3);

sq=sqrt(a);

clc

a=1+i

b=2+3i

s=a+b;

q=a/b;

d=a-b;

p=a\*b;

c=a^2;

r=a^(2/3);

sq=sqrt(a);

theta = angle(a)

rho = abs(a)

Re = real(a)

Im = imag(a)

bara = conj(a)

V = zeros(1,4)

V(1) = 1

V(2) = 2

V(3) = 3

V(4) = 4

V(5) = 5

V(6) = 6

z = zeros(1,8)

V = [1+1i,2+3i,3,4]

transpV = transpose(V)

Vect1 = [1, 2, 3, 4];

Vect2 = [5, 6, 7, 8];

S = Vect1 + Vect2

D = Vect1-Vect2

P = Vect1\*transpose(Vect2)

PP = Vect1.\*Vect2

a = 1;

b = 15;

pas = 2;

V = a:pas:b

v=a:b

l = length(V)

[maxV, indmax] = max(V)

[minV, indmin] = min(V)

ind = find(V == 3)

n = 3;

m = 4;

A = zeros(n,m);

A = [1,2,3,4; 5,6,7,8; 9, 10, 11, 12]

A(2,:)

A(:,3)

A(:,2:end)

A(2:end,1:2:end)

n = 2;

m = 2;

A = zeros(n,m);

A = [4,1; -4, 1]

det(A)

h=trace(A)

inv(A)

transpose(A)

A = [4,1; -4, 1]

B = [1,2; 2, 1]

A + B

A\*B

x = 2;

cond1 = (x > 1)

cond2 = (x == 0)

cond3 = (x ~= 0)

cond4 = (x < 5)

cond5=(x<0)

cond6=(x==1)

cond5 = cond1 && cond4

cond6 = cond1 || cond4

x=1;

while x<10

x = x+1;

end

x

for x=1:2:9

result=x

end

low = 0;

high = 0;

for x=1:30

if (x<5)

low=low+1;

else

high = high + 1;

end

end

low

high

dayNumber = input('Enter a number (1 to 7) to get the day of the week: ');

switch dayNumber

case 1

disp('Sunday');

case 2

disp('Monday');

case 3

disp('Tuesday');

case 4

disp('Wednesday');

case 5

disp('Thursday');

case 6

disp('Friday');

case 7

disp('Saturday');

otherwise

disp('Invalid input. Please enter a number between 1 and 7.');

end

x = 0:0.01:2\*pi;

y = cos(x);

figure

plot(x,y)

xlabel('temps')

ylabel('signal')

title('cosinus')

figure(1)

hold on

z = sin(x)

plot(x,z , '.-r')

legend('cosinus', 'sinus')

title('cosinus et sinus')

x = 0:0.01:2\*pi;

y = cos(x);

z = sin(x);

figure

subplot(2,1,1)

plot(x,y,'b')

grid on

xlabel('temps')

ylabel('signal')

title('cosinus')

subplot(2,1,2)

plot(x,z,'r')

grid on

xlabel('temps')

ylabel('signal')

title('sinus')

