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%This file is to show the ability of Matlab to be calculator
%By: Eng.Hesham Hamdy
clc; %clear command window
disp('MEMS')%string
mystring='MEMS'
x= 3+5
y= 4-10
a=10^5
c=58/10
d=10\58
z=5*66
t=10e+2
h=15*exp(-3) %try h=15exp(-3)
s=12*sin(20) % try s= 12*sin20
g=log(10)%try g= ln(10)
e=log10(10)
q=log2(9)
r=logb(5,3)%special function done by Brett Shoelson @ mathworks and not found ✓
by Matlab by default
l=sqrt(16)
format long
r=pi
format short
s=pi

round(1.4)
floor(3.3)
ceil(5.76)

%complex
w=3+10i
v=5+10j
X=w*v
real (X)
imag(X)
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abs(X)

conj(X)

angle(X)

[Theta,R]=cart2pol(real(X),imag(X))%from cartesian to polar

[n,m]=pol2cart(Theta,R) % from polar to cartesian