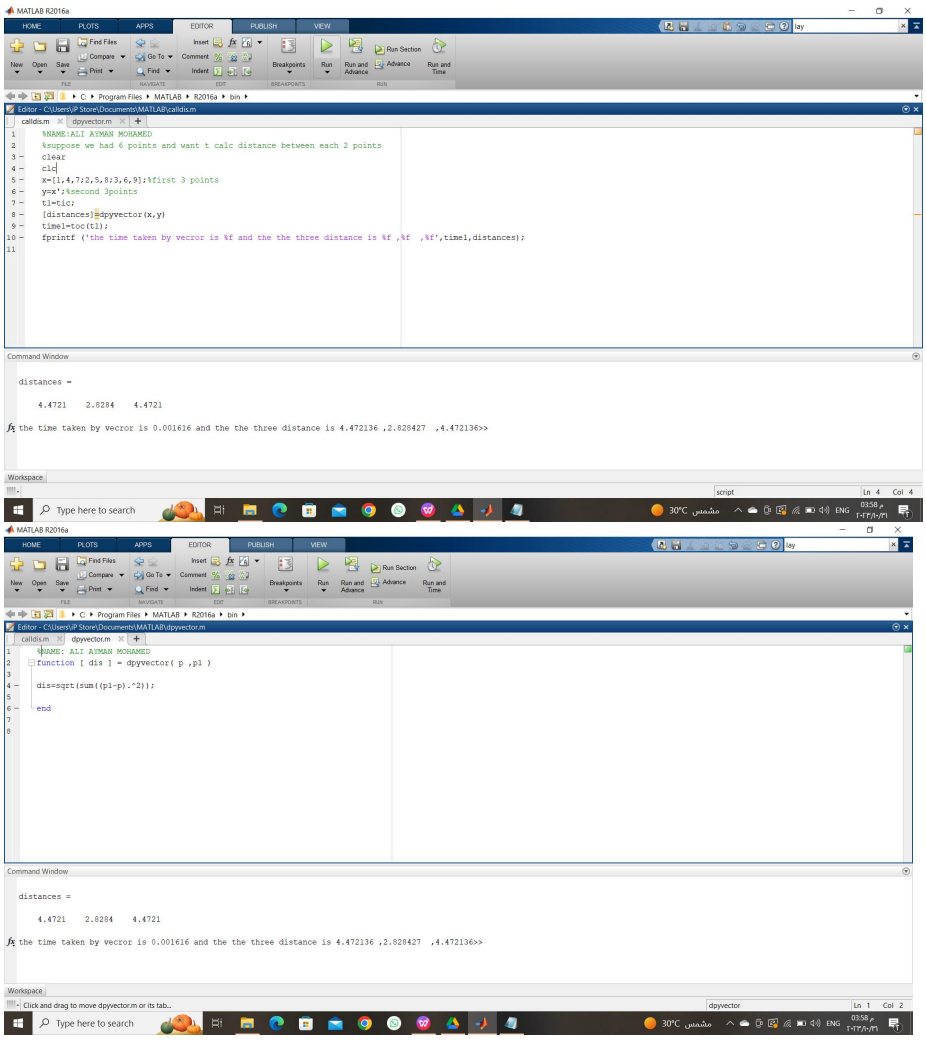
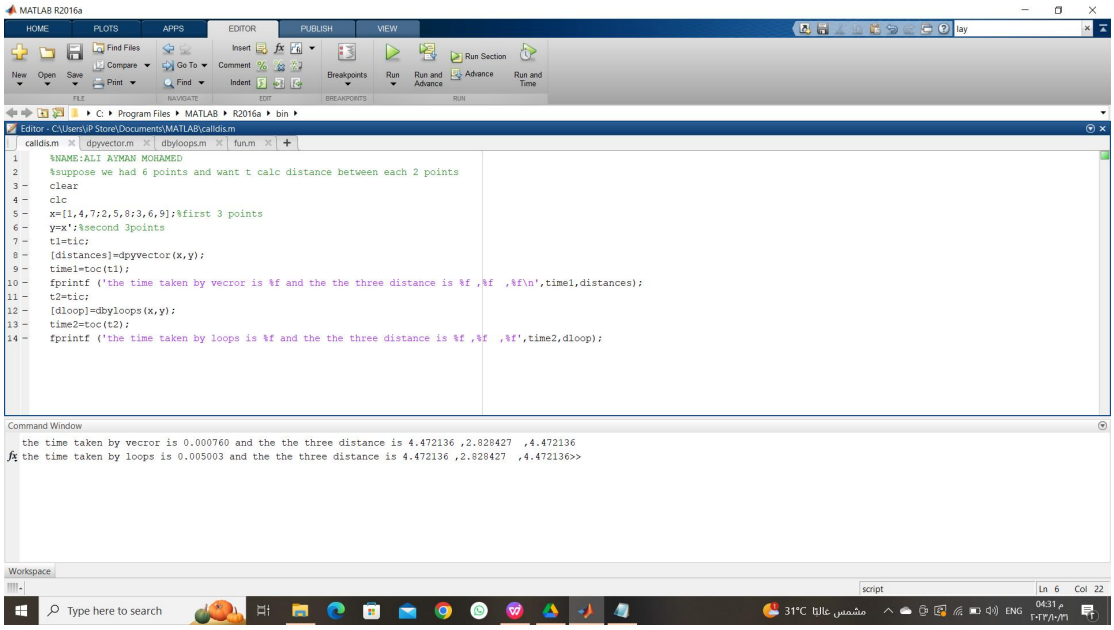
NAME : ALI AYMAN MOHAMED




MATLAB R2016a
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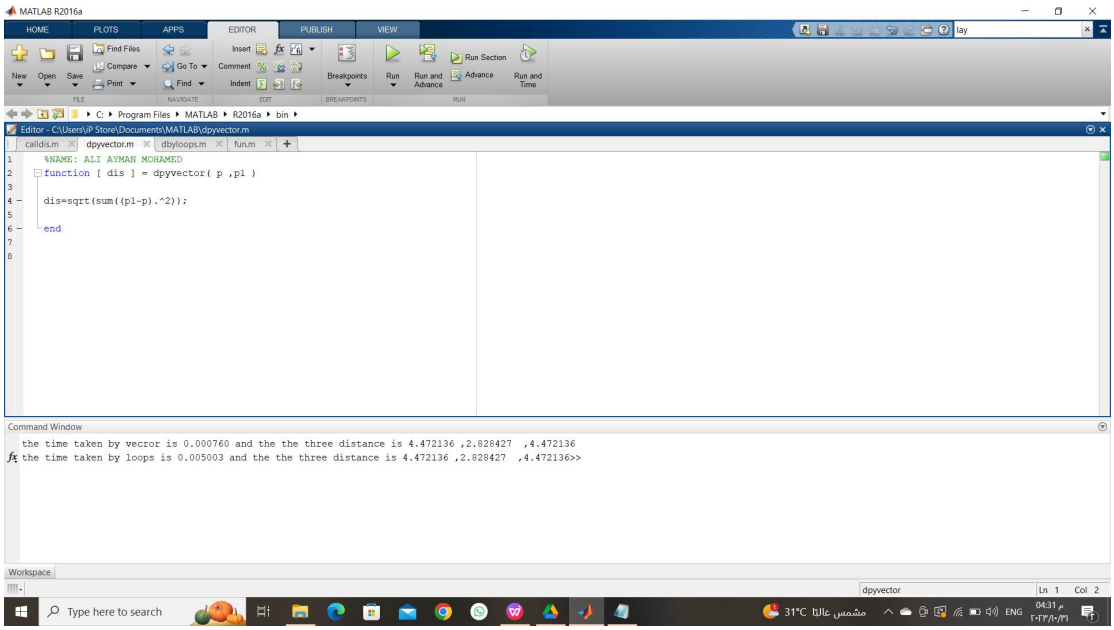
Editor - C:\Users\iP Store\Documents\MATLAB\calldis.m
calldis.m
dpyvector.m
dbyloops.m
fun.m
%NAME:ALI AYMAN MOHAMED
%suppose we had 6 points and want t calc distance between each 2 points
clear
clc
x=[1,4,7;2,5,8;3,6,9];%first 3 points
y=x';%second 3points
t1=tic;
[distances]=dpyvector(x,y);
time1=toc(t1);
fprintf ('the time taken by vecror is %f and the the three distance is %f ,%f ,%f\n',time1,distances);
t2=tic;
[dloop]=dbyloops(x,y);
time2=toc(t2);
fprintf ('the time taken by loops is %f and the the three distance is %f ,%f ,%f',time2,dloop);
Command Window
the time taken by vecror is 0.000760 and the the three distance is 4.472136 ,2.828427 ,4.472136
the time taken by loops is 0.005003 and the the three distance is 4.472136 ,2.828427 ,4.472136>>
Workspace
script
Ln 6 Col 22
Type here to search
ENG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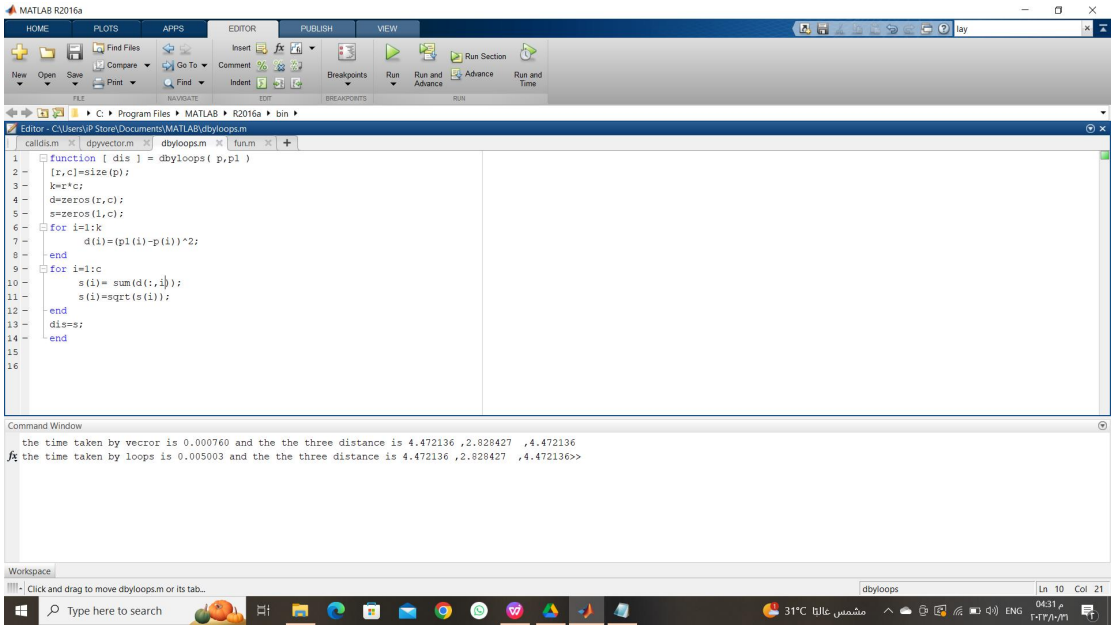
Editor - C:\Users\iP Store\Documents\MATLAB\dpyvector.m
calldis.m
dpyvector.m
dbyloops.m
fun.m
%NAME: ALI AYMAN MOHAMED
function [dis] = dpyvector(p ,p1)
dis=sqrt(sum((p1-p).^2));
end
Command Window
the time taken by vecror is 0.000760 and the the three distance is 4.472136 ,2.828427 ,4.472136
the time taken by loops is 0.005003 and the the three distance is 4.472136 ,2.828427 ,4.472136>>
Workspace
dpyvector
Ln 1 Col 2
Type here to search
ENG


MATLAB R2016a
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Editor - C:\Users\iP Store\Documents\MATLAB\dbyloops.m
calldis.m
dpyvector.m
dbyloops.m
fun.m
function [dis] = dbyloops(p,pl)
[r,c]=size(p);
k=r*c;
d=zeros(r,c);
s=zeros(1,c);
for i=1:k
d(i)=(pl(i)-p(i))^2;
end
for i=1:c
s(i)= sum(d(:,i));
s(i)=sqrt(s(i));
end
dis=s;
end
Command Window
the time taken by vecror is 0.000760 and the the three distance is 4.472136 ,2.828427 ,4.472136
the time taken by loops is 0.005003 and the the three distance is 4.472136 ,2.828427 ,4.472136>>
Workspace
Click and drag to move dbyloops.m or its tab...
dbyloops
Ln 10 Col 21
Type here to search
31°C
ENG