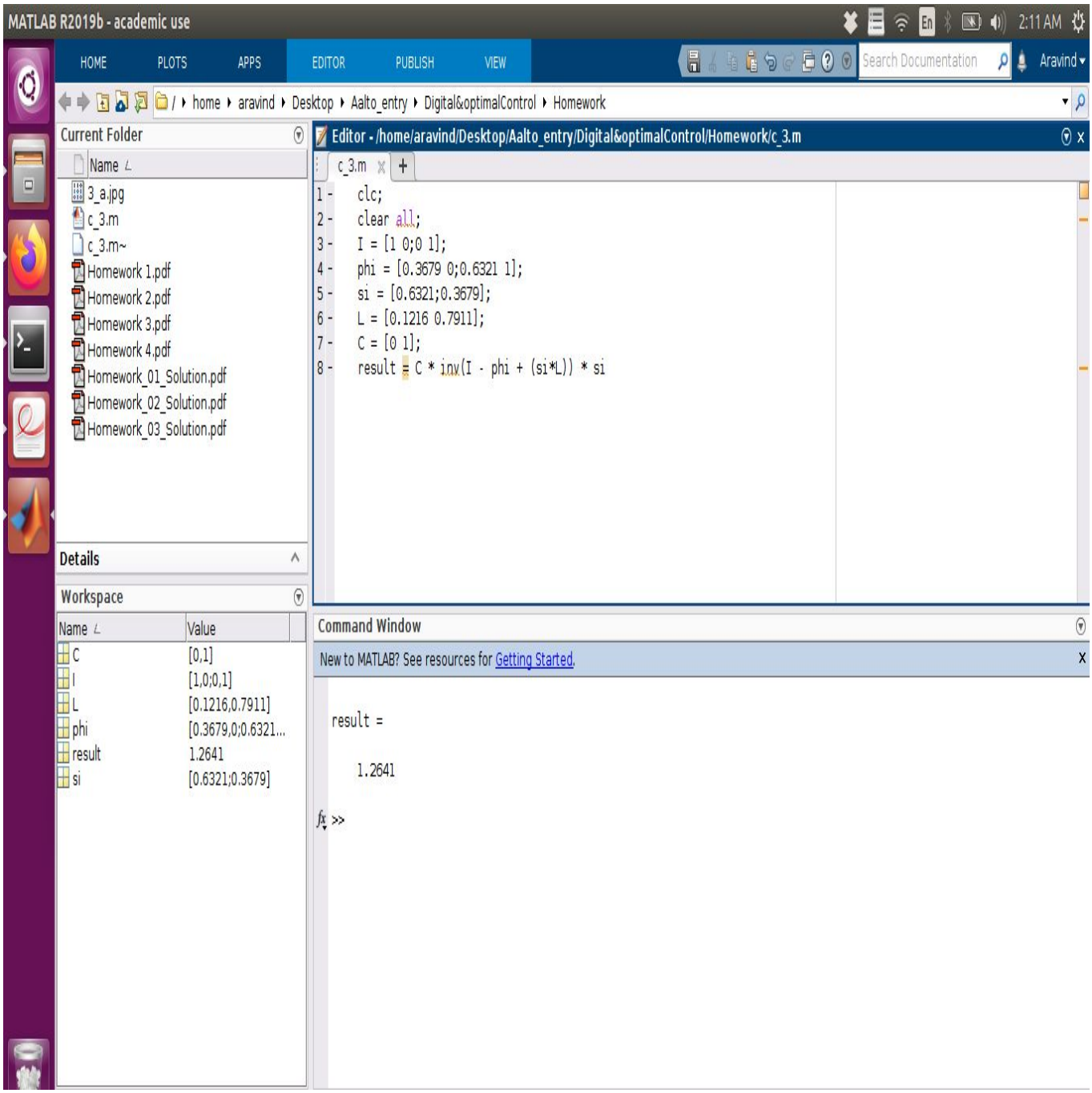
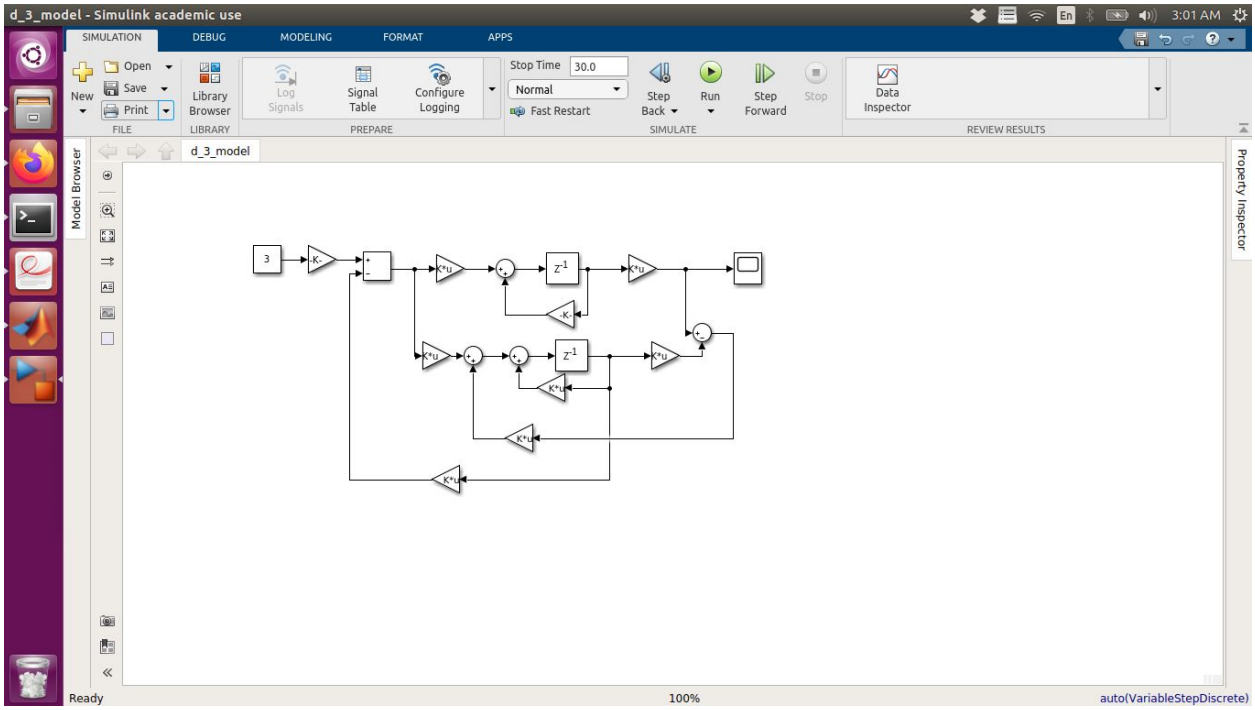
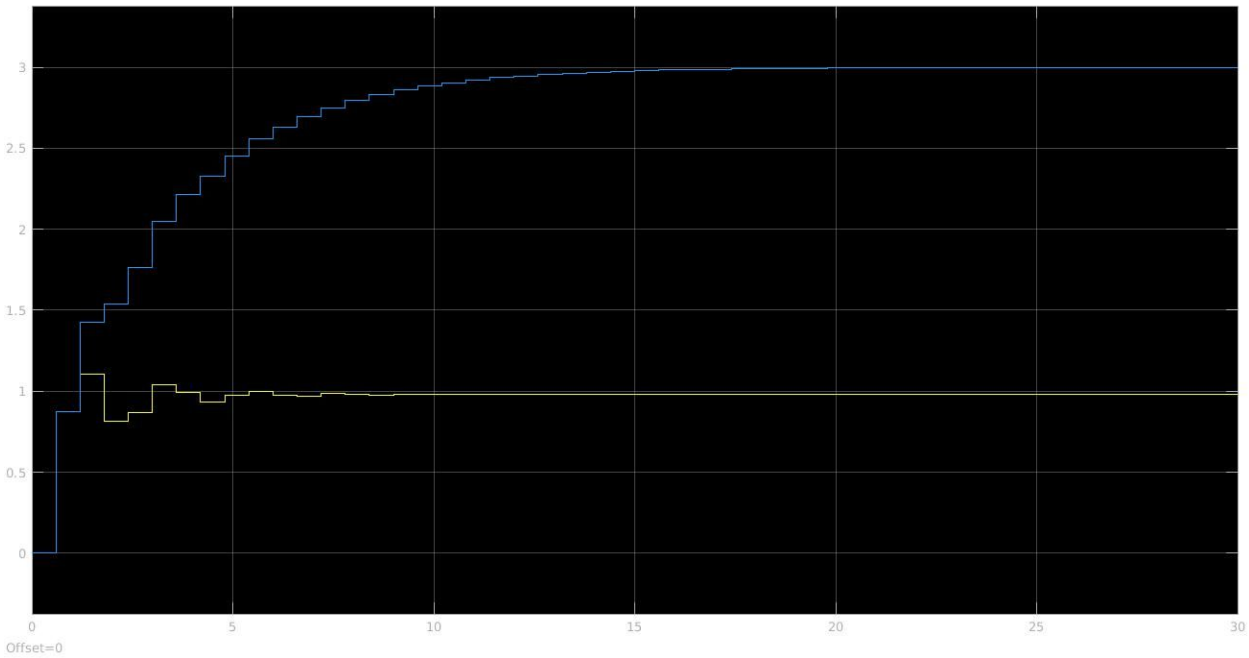

MATLAB R2019b - academic use
2:11 AM
HOME
PLOTS
APPS
EDITOR
PUBLISH
VIEW
Search Documentation
Aravind
/ ▸ home ▸ aravind ▸ Desktop ▸ Aalto_entry ▸ Digital&optimalControl ▸ Homework
Current Folder
Name
3_a.jpg
c_3.m
c_3.m~
Homework 1.pdf
Homework 2.pdf
Homework 3.pdf
Homework 4.pdf
Homework_01_Solution.pdf
Homework_02_Solution.pdf
Homework_03_Solution.pdf
Details
Workspace
Name
Value
C
[0,1]
I
[1,0;0,1]
L
[0.1216,0.7911]
phi
[0.3679,0;0.6321...
result
1.2641
si
[0.6321;0.3679]
Editor - /home/aravind/Desktop/Aalto_entry/Digital&optimalControl/Homework/c_3.m
c_3.m
1 - clc;
2 - clear all;
3 - I = [1 0;0 1];
4 - phi = [0.3679 0;0.6321 1];
5 - si = [0.6321;0.3679];
6 - L = [0.1216 0.7911];
7 - C = [0 1];
8 - result = C * inv(I - phi + (si*L)) * si
Command Window
New to MATLAB? See resources for Getting Started.
result =
1.2641
fx >>

1.d

The model in simulink designed was: [yRef = constant ,3]



The output in the scope was found to be :



As you can see, the output value reaches to 3, which was given as yref value in the model

1.e

The disturbance was added in output and output was observed. It is seen , some kind of fluctuation in noticed in reaching the desired value. But I was not able to find much difference in the output.