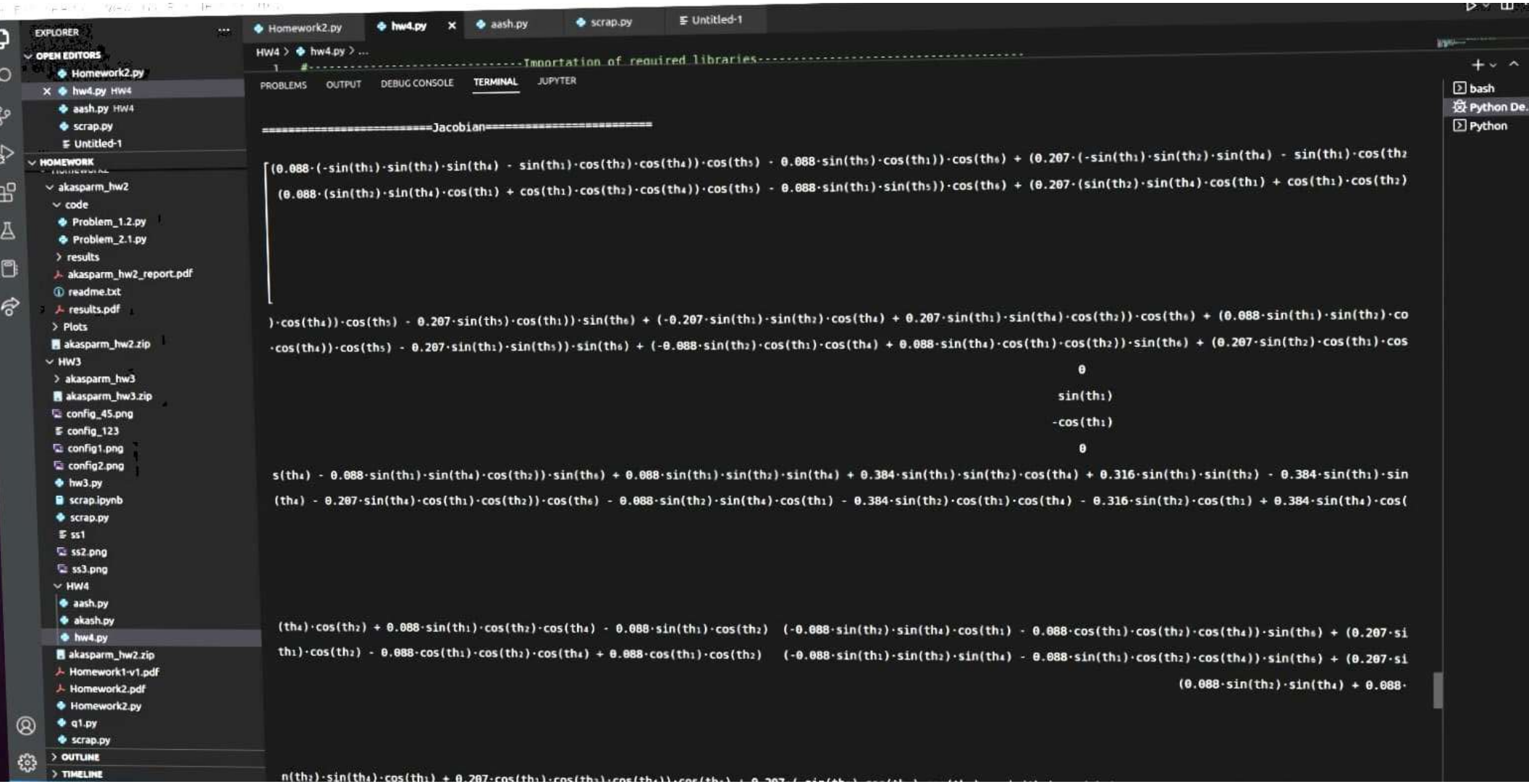
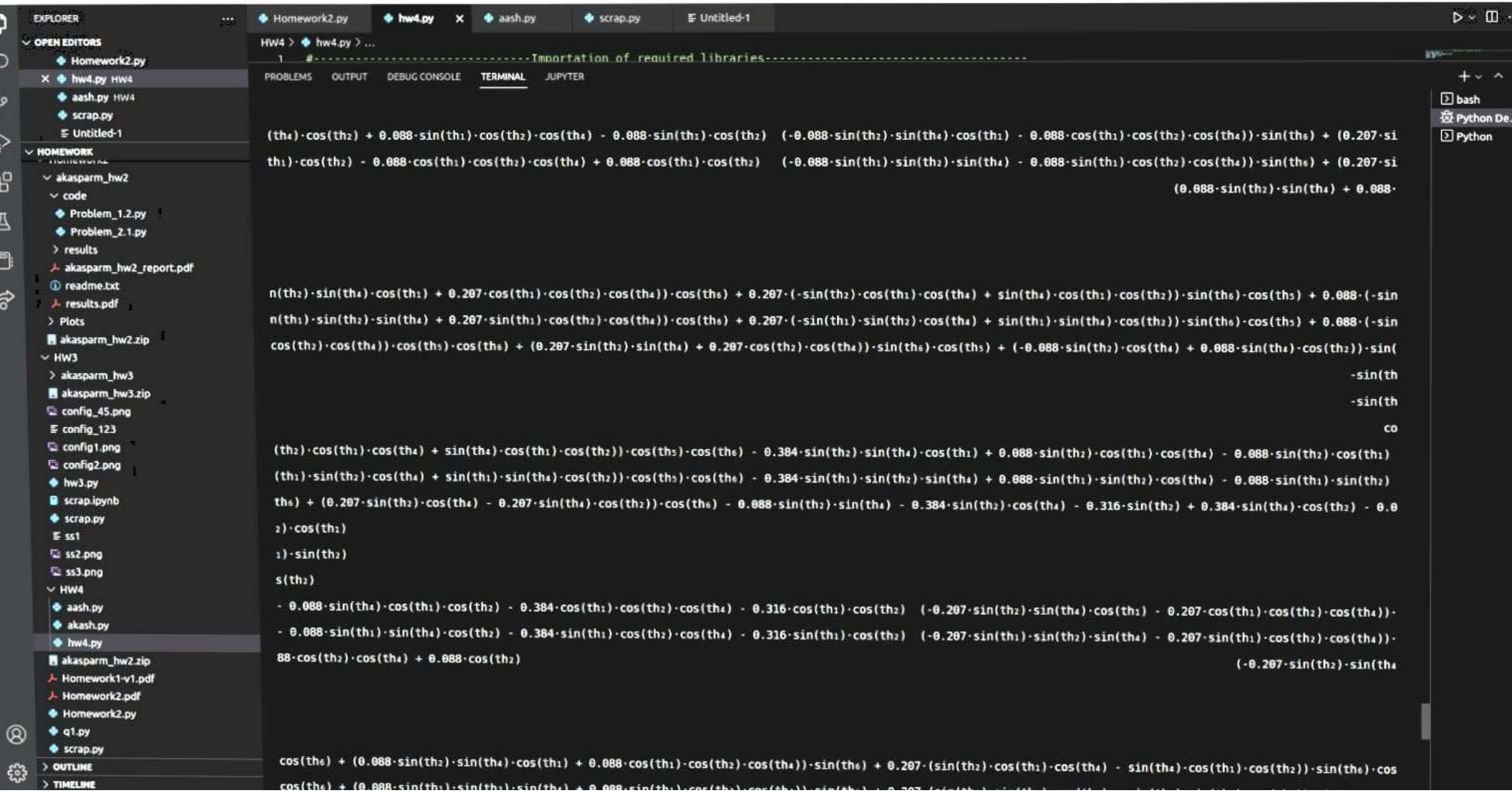

EXPLORER
OPEN EDITORS
Homework2.py
hw4.py HW4
aash.py HW4
scrap.py
Untitled-1
HOMEWORK
akasparm_hw2
code
Problem_1.2.py
Problem_2.1.py
results
akasparm_hw2_report.pdf
readme.txt
results.pdf
Plots
akasparm_hw2.zip
HW3
akasparm_hw3
akasparm_hw3.zip
config_45.png
config_123
config1.png
config2.png
hw3.py
scrap.ipynb
scrap.py
ss1
ss2.png
ss3.png
HW4
aash.py
akash.py
hw4.py
akasparm_hw2.zip
Homework1-v1.pdf
Homework2.pdf
Homework2.py
q1.py
scrap.py
OUTLINE
TIMELINE
Homework2.py
hw4.py
aash.py
scrap.py
Untitled-1
HW4 > hw4.py > ...
1 #----------Importation of required libraries----------
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
JUPYTER
bash
Python De...
Python
==========Jacobian==========
(0.088·(-sin(th1)·sin(th2)·sin(th4) - sin(th1)·cos(th2)·cos(th4))·cos(th5) - 0.088·sin(th5)·cos(th1))·cos(th6) + (0.207·(-sin(th1)·sin(th2)·sin(th4) - sin(th1)·cos(th2
(0.088·(sin(th2)·sin(th4)·cos(th1) + cos(th1)·cos(th2)·cos(th4))·cos(th5) - 0.088·sin(th1)·sin(th5))·cos(th6) + (0.207·(sin(th2)·sin(th4)·cos(th1) + cos(th1)·cos(th2)
)·cos(th4))·cos(th5) - 0.207·sin(th5)·cos(th1))·sin(th6) + (-0.207·sin(th1)·sin(th2)·cos(th4) + 0.207·sin(th1)·sin(th4)·cos(th2))·cos(th6) + (0.088·sin(th1)·sin(th2)·co
·cos(th4))·cos(th5) - 0.207·sin(th1)·sin(th5))·sin(th6) + (-0.088·sin(th2)·cos(th1)·cos(th4) + 0.088·sin(th4)·cos(th1)·cos(th2))·sin(th6) + (0.207·sin(th2)·cos(th1)·cos
0
sin(th1)
-cos(th1)
0
s(th4) - 0.088·sin(th1)·sin(th4)·cos(th2))·sin(th6) + 0.088·sin(th1)·sin(th2)·sin(th4) + 0.384·sin(th1)·sin(th2)·cos(th4) + 0.316·sin(th1)·sin(th2) - 0.384·sin(th1)·sin
(th4) - 0.207·sin(th4)·cos(th1)·cos(th2))·cos(th6) - 0.088·sin(th2)·sin(th4)·cos(th1) - 0.384·sin(th2)·cos(th1)·cos(th4) - 0.316·sin(th2)·cos(th1) + 0.384·sin(th4)·cos(
(th4)·cos(th2) + 0.088·sin(th1)·cos(th2)·cos(th4) - 0.088·sin(th1)·cos(th2) (-0.088·sin(th2)·sin(th4)·cos(th1) - 0.088·cos(th1)·cos(th2)·cos(th4))·sin(th6) + (0.207·si
th1)·cos(th2) - 0.088·cos(th1)·cos(th2)·cos(th4) + 0.088·cos(th1)·cos(th2) (-0.088·sin(th1)·sin(th2)·sin(th4) - 0.088·sin(th1)·cos(th2)·cos(th4))·sin(th6) + (0.207·si
(0.088·sin(th2)·sin(th4) + 0.088·
n(th2)·sin(th4)·cos(th1) + 0.207·cos(th1)·cos(th2)·cos(th4))·cos(th5)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1 #----------Importation of required libraries----------
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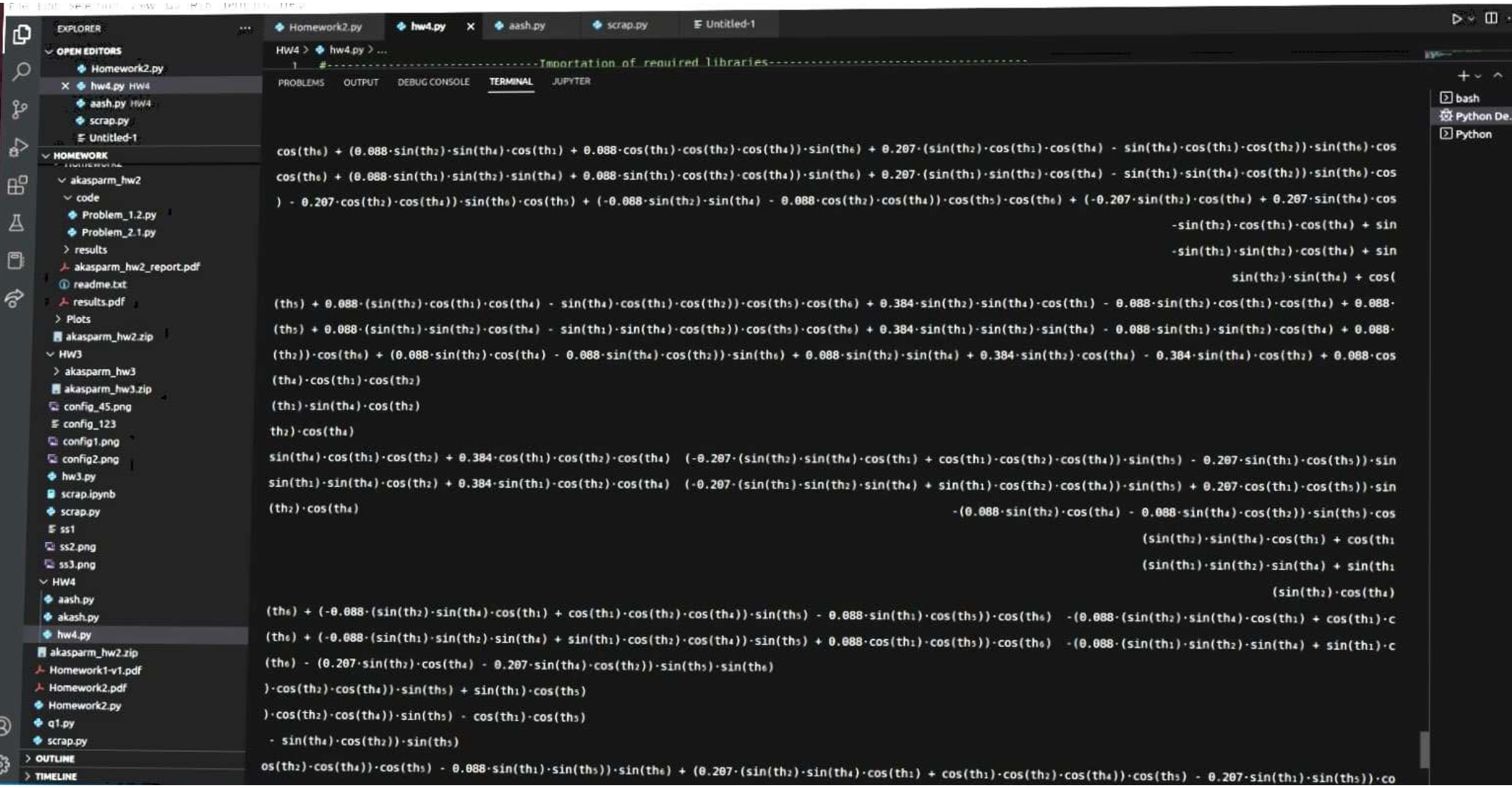
Python De...
Python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HW4 > hw4.py > ...
1 #------------------------------Importation of required libraries----------------------------------
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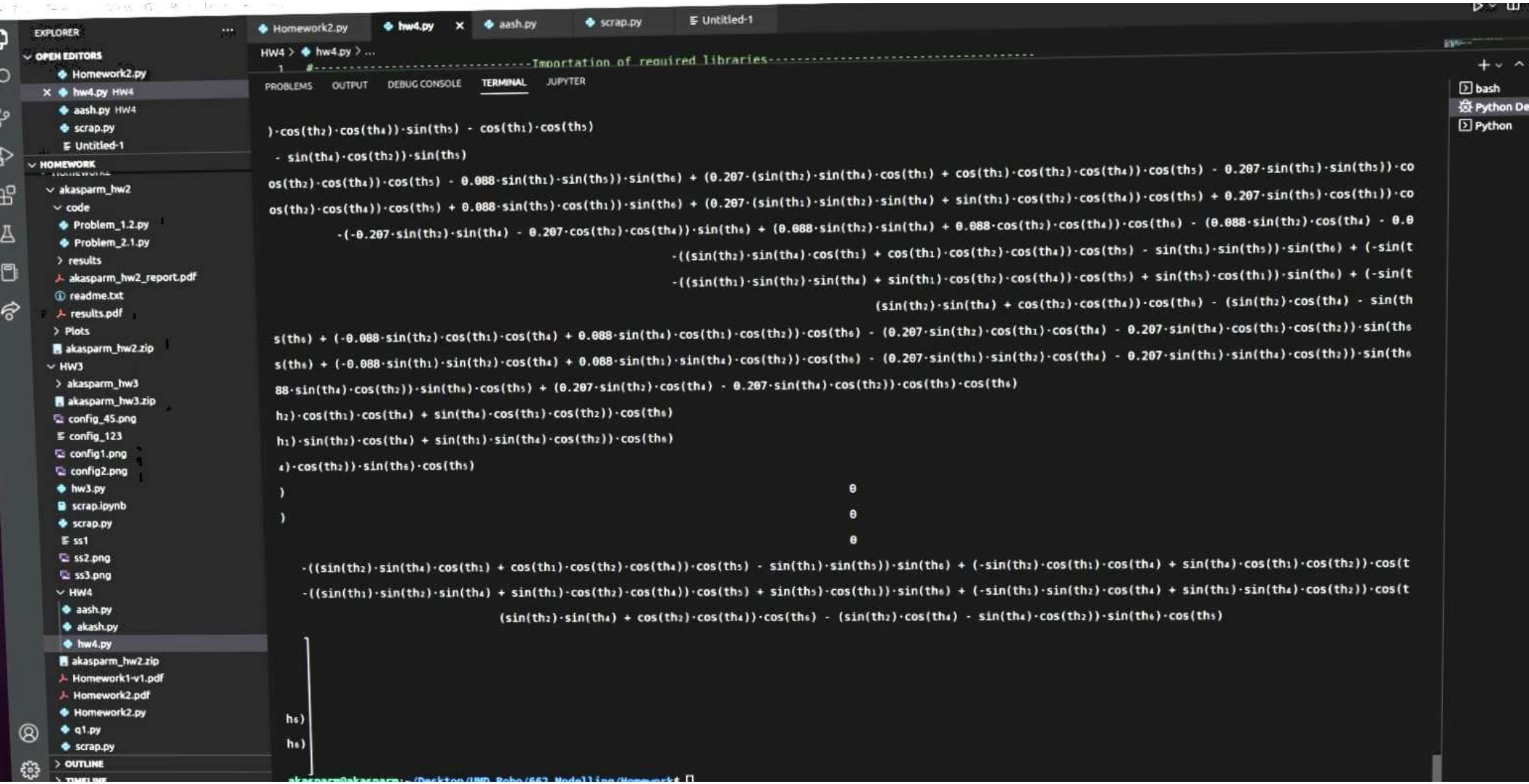
Python De...
Python
cos(th6) + (0.088·sin(th2)·sin(th4)·cos(th1) + 0.088·cos(th1)·cos(th2)·cos(th4))·sin(th6) + 0.207·(sin(th2)·cos(th1)·cos(th4) - sin(th4)·cos(th1)·cos(th2))·sin(th6)·cos
cos(th6) + (0.088·sin(th1)·sin(th2)·sin(th4) + 0.088·sin(th1)·cos(th2)·cos(th4))·sin(th6) + 0.207·(sin(th1)·sin(th2)·cos(th4) - sin(th1)·sin(th4)·cos(th2))·sin(th6)·cos
) - 0.207·cos(th2)·cos(th4))·sin(th6)·cos(th5) + (-0.088·sin(th2)·sin(th4) - 0.088·cos(th2)·cos(th4))·cos(th5)·cos(th6) + (-0.207·sin(th2)·cos(th4) + 0.207·sin(th4)·cos
-sin(th2)·cos(th1)·cos(th4) + sin
-sin(th1)·sin(th2)·cos(th4) + sin
sin(th2)·sin(th4) + cos(
(th5) + 0.088·(sin(th2)·cos(th1)·cos(th4) - sin(th4)·cos(th1)·cos(th2))·cos(th5)·cos(th6) + 0.384·sin(th2)·sin(th4)·cos(th1) - 0.088·sin(th2)·cos(th1)·cos(th4) + 0.088·
(th5) + 0.088·(sin(th1)·sin(th2)·cos(th4) - sin(th1)·sin(th4)·cos(th2))·cos(th5)·cos(th6) + 0.384·sin(th1)·sin(th2)·sin(th4) - 0.088·sin(th1)·sin(th2)·cos(th4) + 0.088·
(th2))·cos(th6) + (0.088·sin(th2)·cos(th4) - 0.088·sin(th4)·cos(th2))·sin(th6) + 0.088·sin(th2)·sin(th4) + 0.384·sin(th2)·cos(th4) - 0.384·sin(th4)·cos(th2) + 0.088·cos
(th4)·cos(th1)·cos(th2)
(th1)·sin(th4)·cos(th2)
th2)·cos(th4)
sin(th4)·cos(th1)·cos(th2) + 0.384·cos(th1)·cos(th2)·cos(th4) (-0.207·(sin(th2)·sin(th4)·cos(th1) + cos(th1)·cos(th2)·cos(th4))·sin(th5) - 0.207·sin(th1)·cos(th5))·sin
sin(th1)·sin(th4)·cos(th2) + 0.384·sin(th1)·cos(th2)·cos(th4) (-0.207·(sin(th1)·sin(th2)·sin(th4) + sin(th1)·cos(th2)·cos(th4))·sin(th5) + 0.207·cos(th1)·cos(th5))·sin
(th2)·cos(th4)
-(0.088·sin(th2)·cos(th4) - 0.088·sin(th4)·cos(th2))·sin(th5)·cos
(sin(th2)·sin(th4)·cos(th1) + cos(th1
(sin(th1)·sin(th2)·sin(th4) + sin(th1
(sin(th2)·cos(th4)
(th6) + (-0.088·(sin(th2)·sin(th4)·cos(th1) + cos(th1)·cos(th2)·cos(th4))·sin(th5) - 0.088·sin(th1)·cos(th5))·cos(th6) -(0.088·(sin(th2)·sin(th4)·cos(th1) + cos(th1)·c
(th6) + (-0.088·(sin(th1)·sin(th2)·sin(th4) + sin(th1)·cos(th2)·cos(th4))·sin(th5) + 0.088·cos(th1)·cos(th5))·cos(th6) -(0.088·(sin(th1)·sin(th2)·sin(th4) + sin(th1)·c
(th6) - (0.207·sin(th2)·cos(th4) - 0.207·sin(th4)·cos(th2))·sin(th5)·sin(th6)
)·cos(th2)·cos(th4))·sin(th5) + sin(th1)·cos(th5)
)·cos(th2)·cos(th4))·sin(th5) - cos(th1)·cos(th5)
- sin(th4)·cos(th2))·sin(th5)
os(th2)·cos(th4))·cos(th5) - 0.088·sin(th1)·sin(th5))·sin(th6) + (0.207·(sin(th2)·sin(th4)·cos(th1) + cos(th1)·cos(th2)·cos(th4))·cos(th5) - 0.207·sin(th1)·sin(th5))·co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1 #----------Importation of required libraries----------
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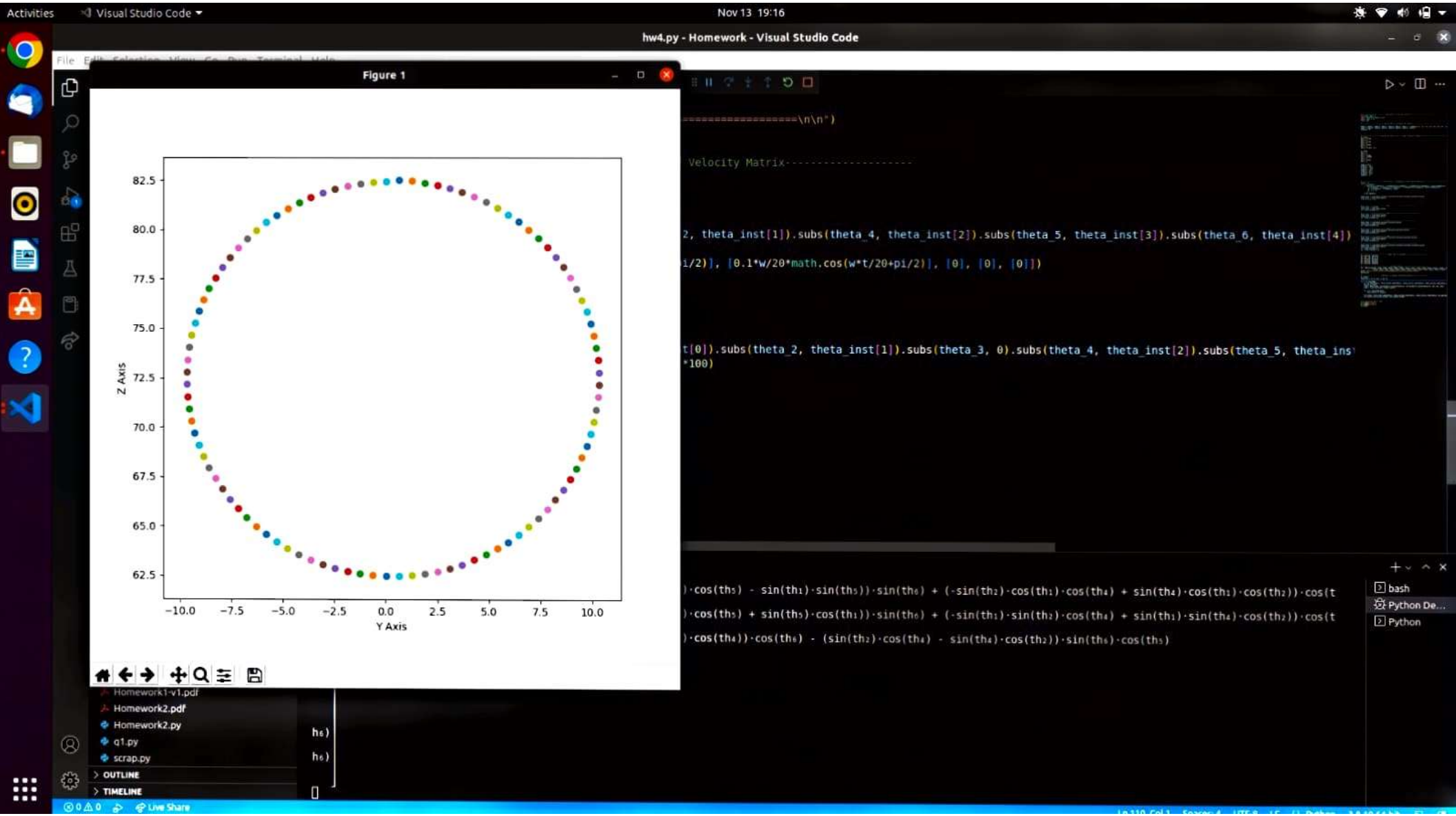
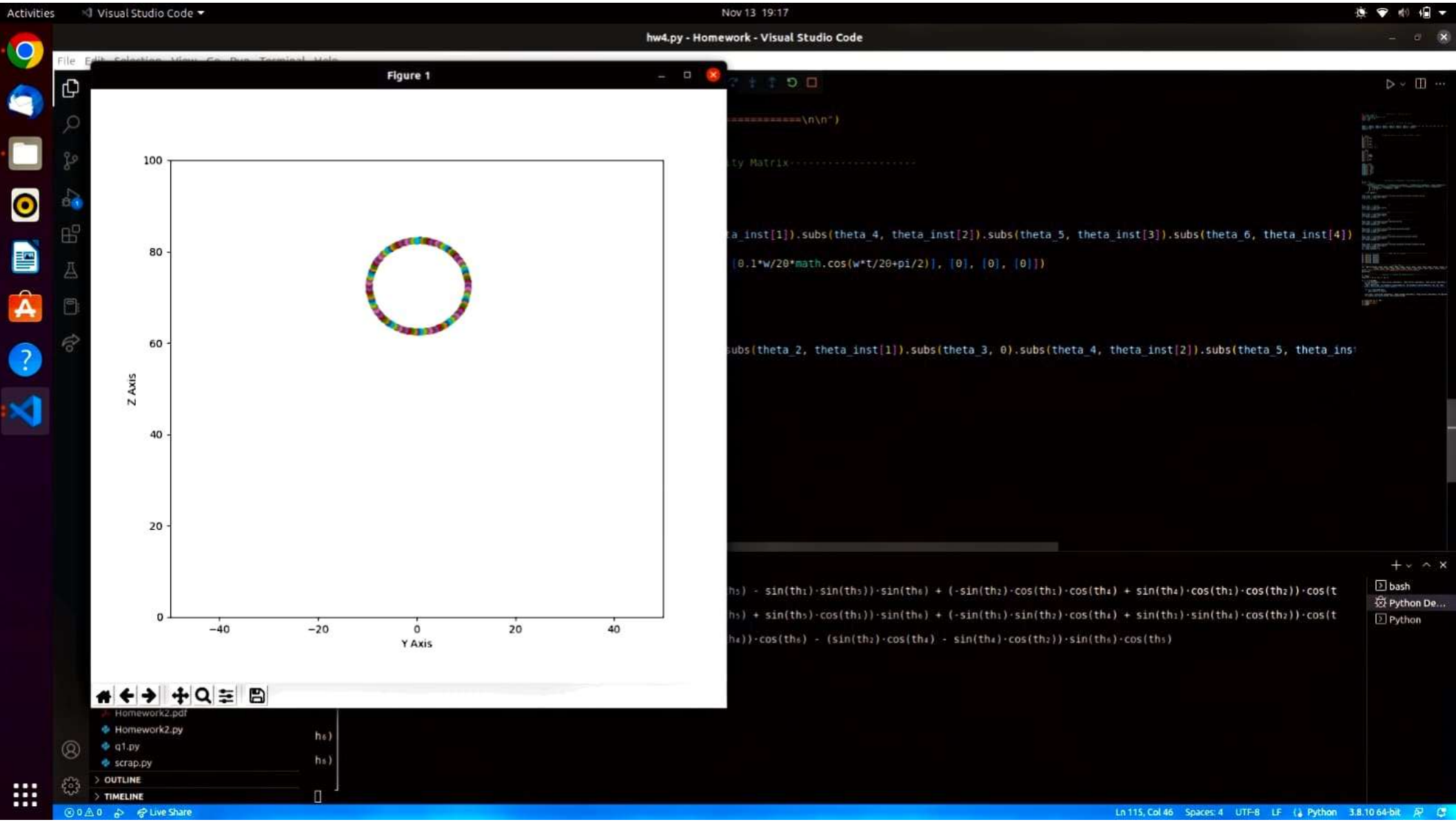
Python


Activities
Visual Studio Code
Nov 13 19:16
hw4.py - Homework - Visual Studio Code
Figure 1
Z Axis
Y Axis
82.5
80.0
77.5
75.0
72.5
70.0
67.5
65.0
62.5
−10.0
−7.5
−5.0
−2.5
0.0
2.5
5.0
7.5
10.0
Homework1-v1.pdf
Homework2.pdf
Homework2.py
q1.py
scrap.py
OUTLINE
TIMELINE
bash
Python De...
Python
Live Share


Activities
Visual Studio Code
Nov 13 19:17
hw4.py - Homework - Visual Studio Code
Figure 1
100
80
60
40
20
0
Z Axis
−40
−20
0
20
40
Y Axis
Homework2.pdf
Homework2.py
q1.py
scrap.py
OUTLINE
TIMELINE
bash
Python De...
Python
Live Share
Ln 115, Col 46
Spaces: 4
UTF-8
LF
Python
3.8.10 64-bit