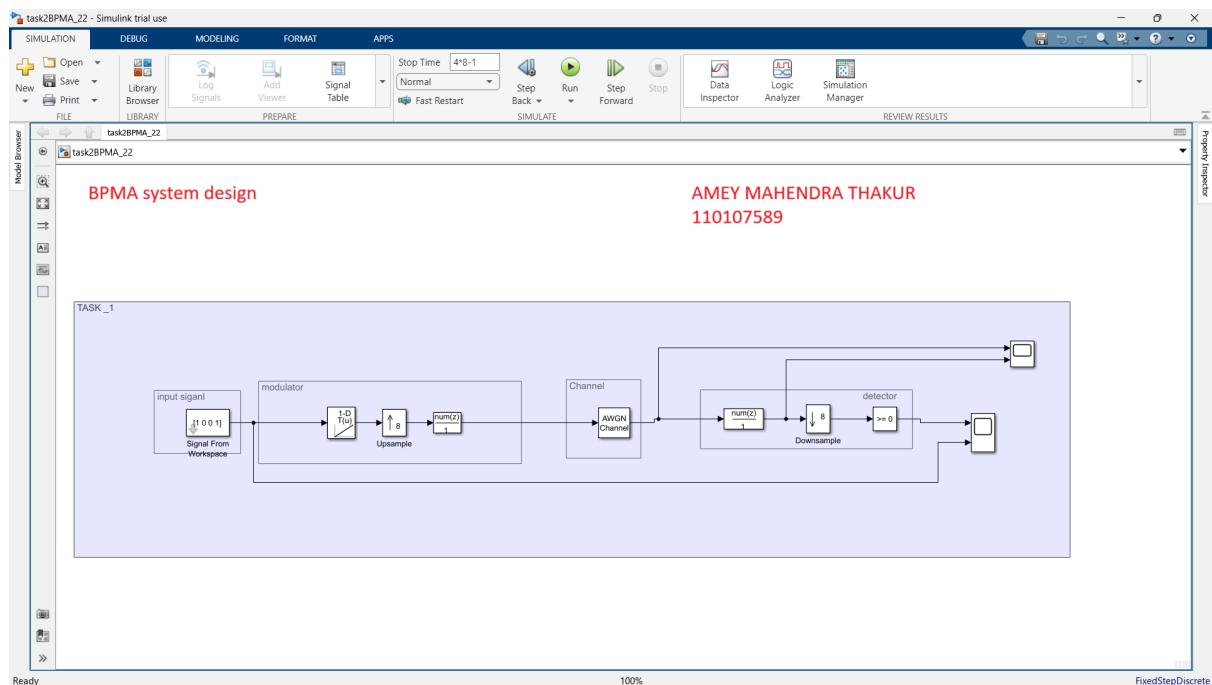


Task 2

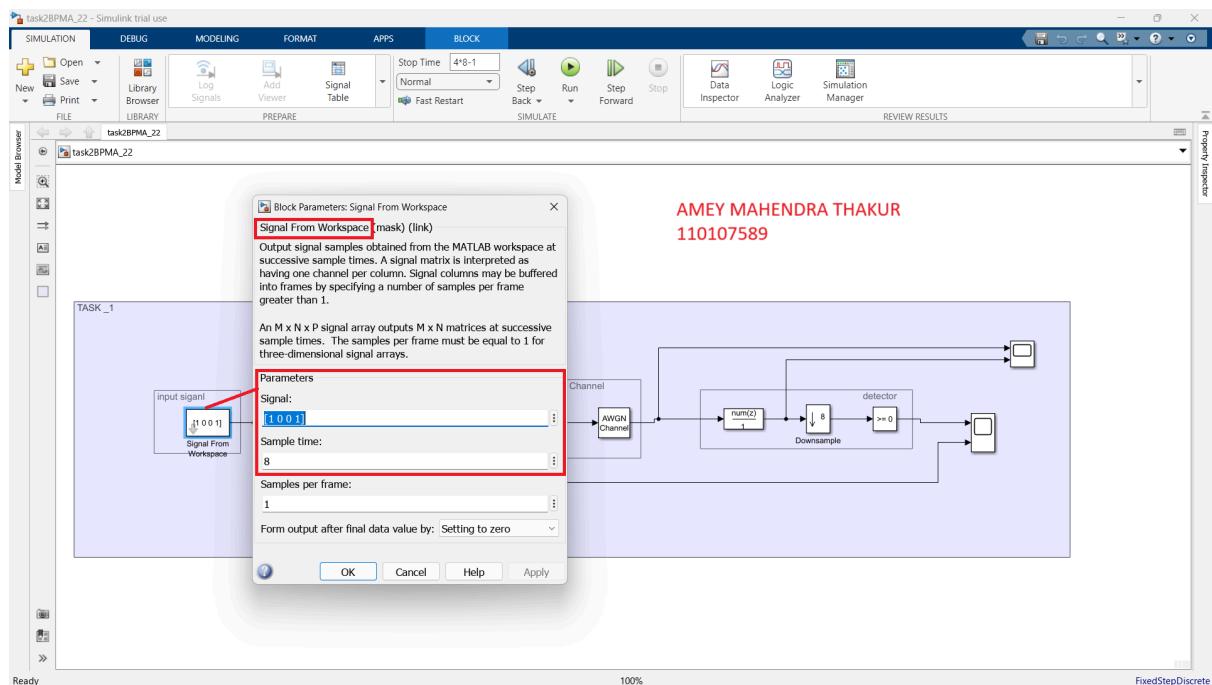
BPAM System Design & Subtask - 1

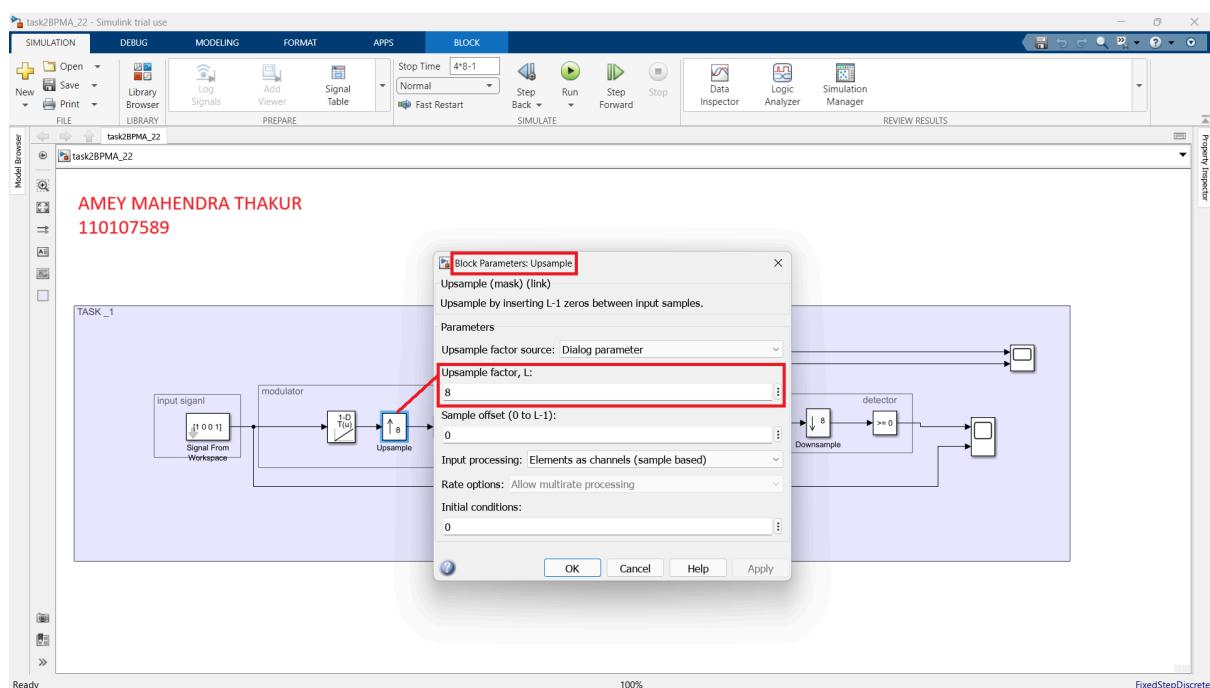
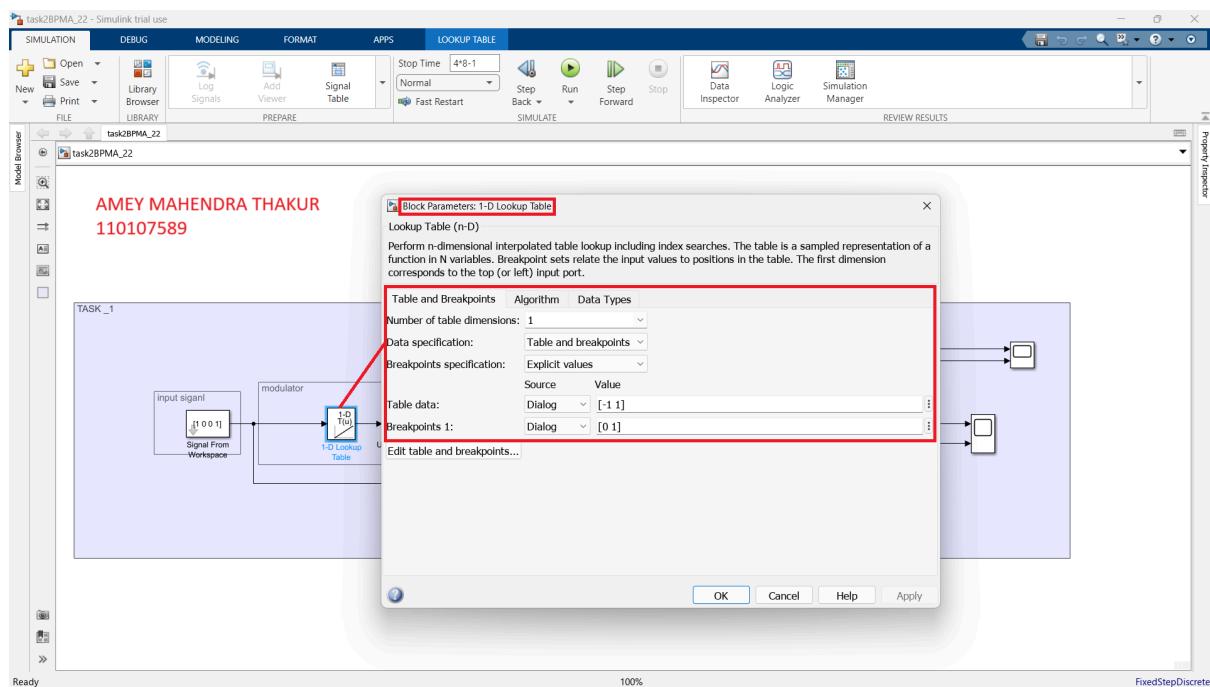
BPAM system design:

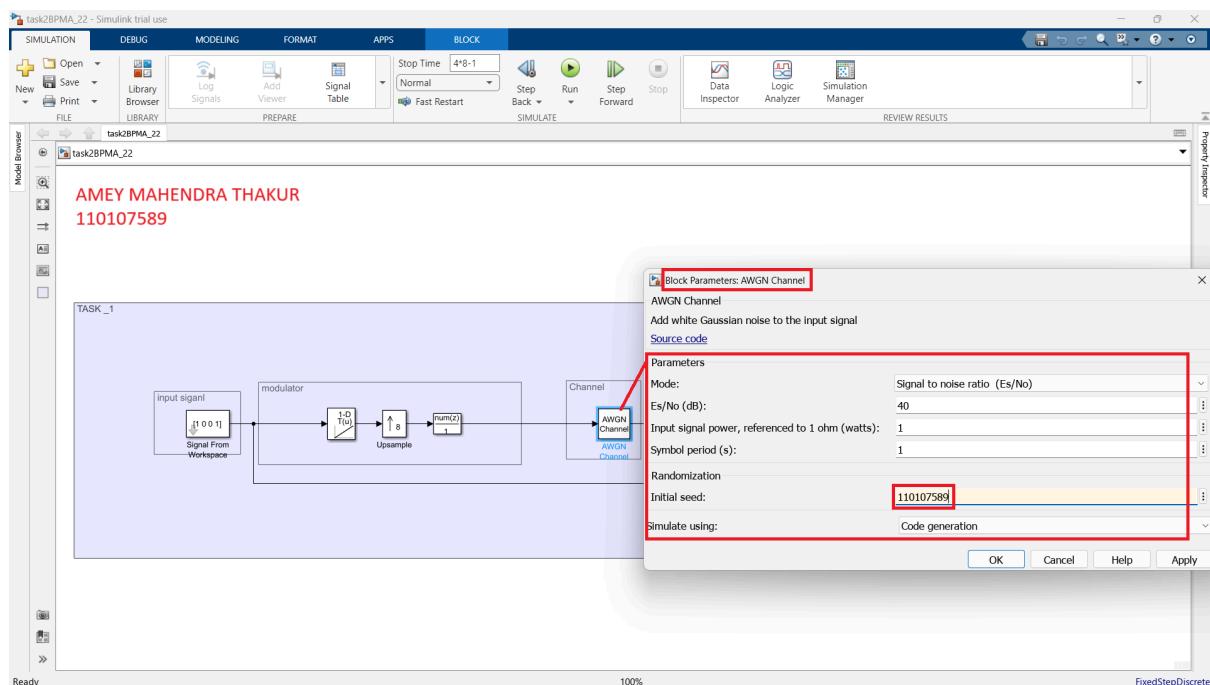
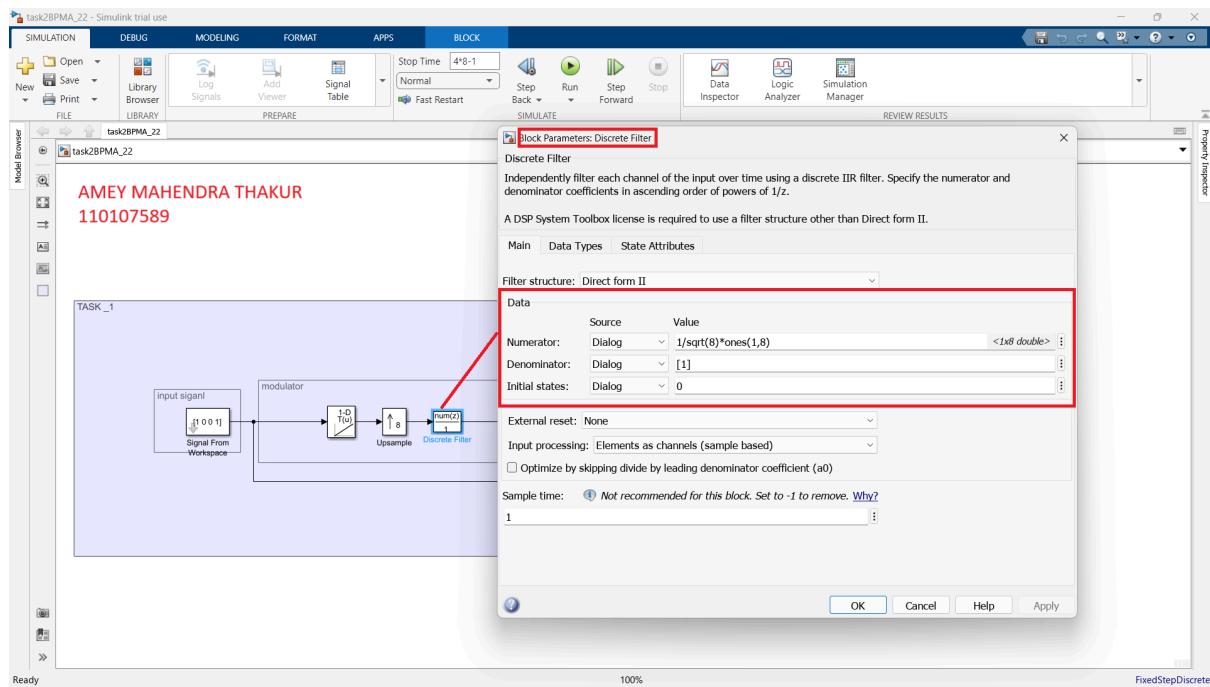
Modulator and detector design block :



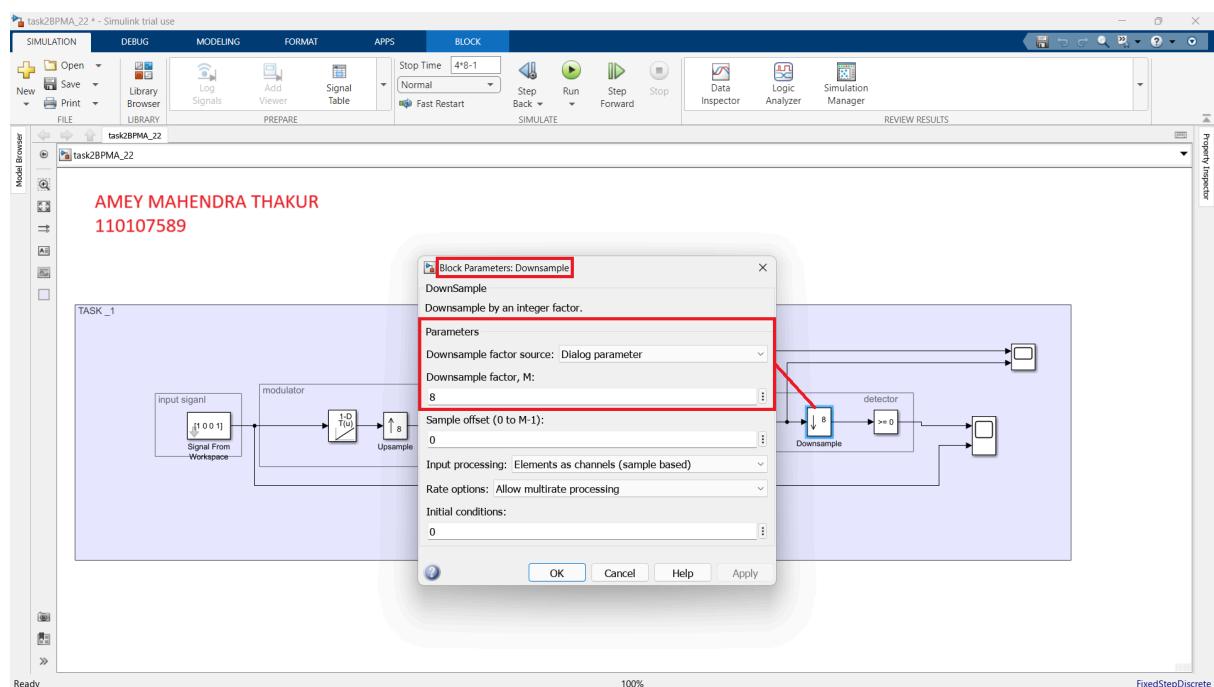
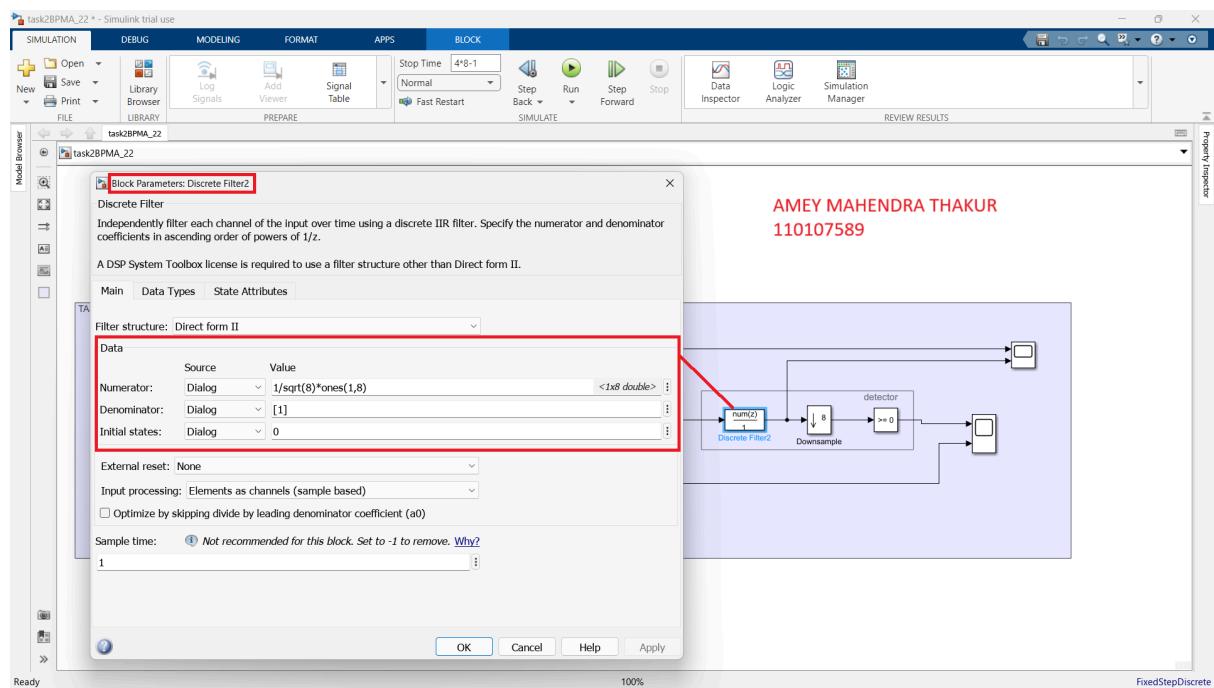
Modular Parameters:

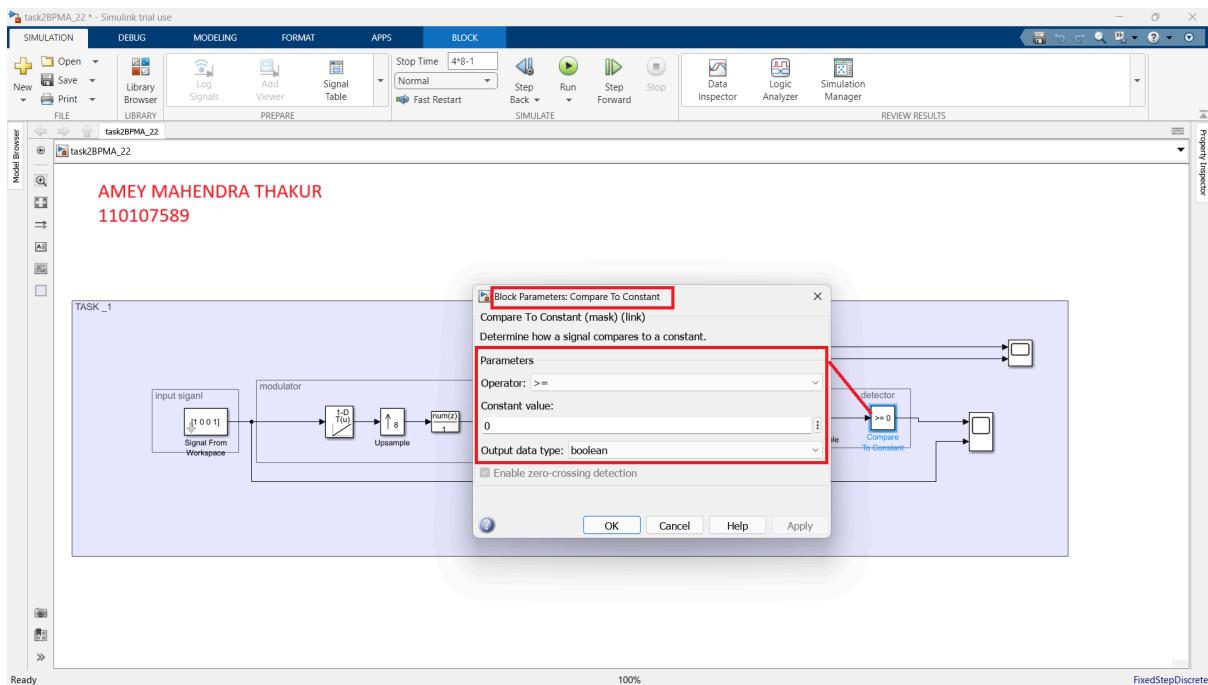




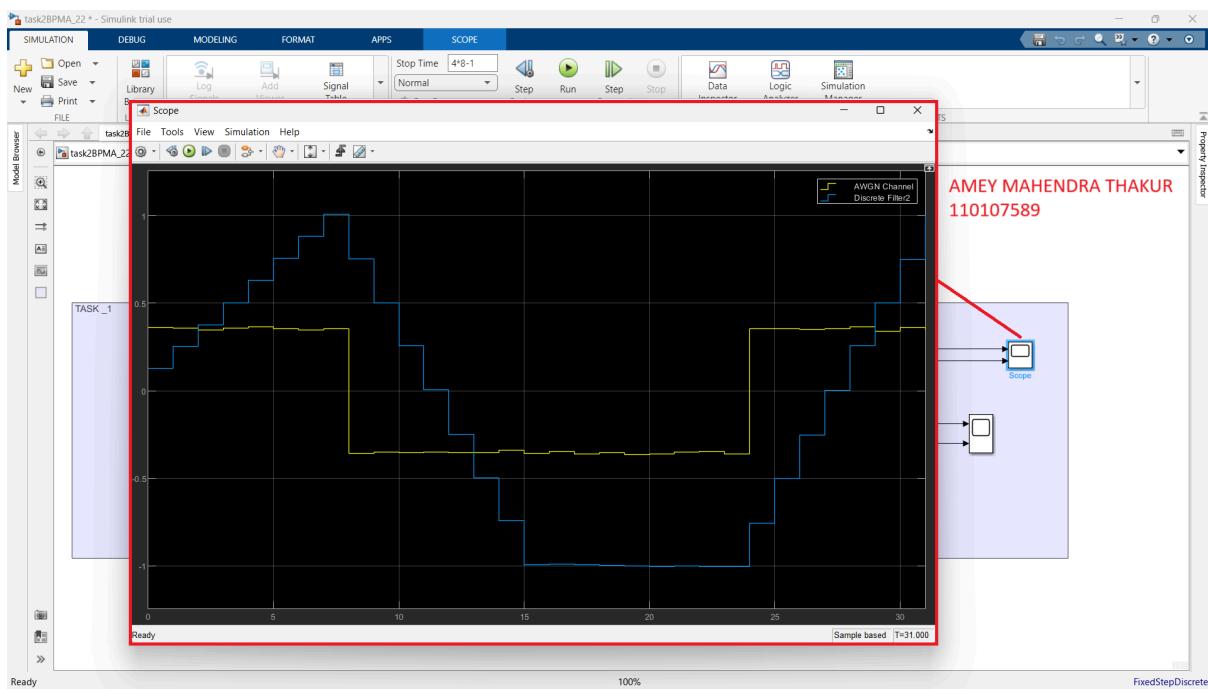


Detector parameters:





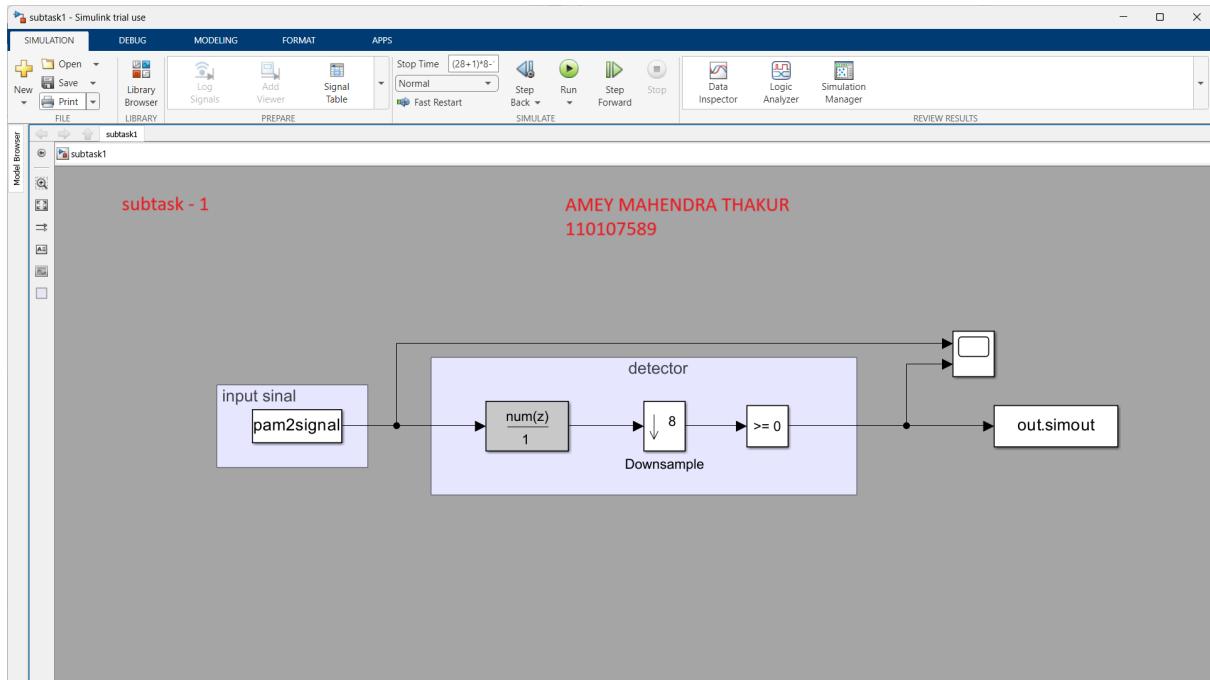
Output of the scope:



This result is extracted from the channel and discrete filter.

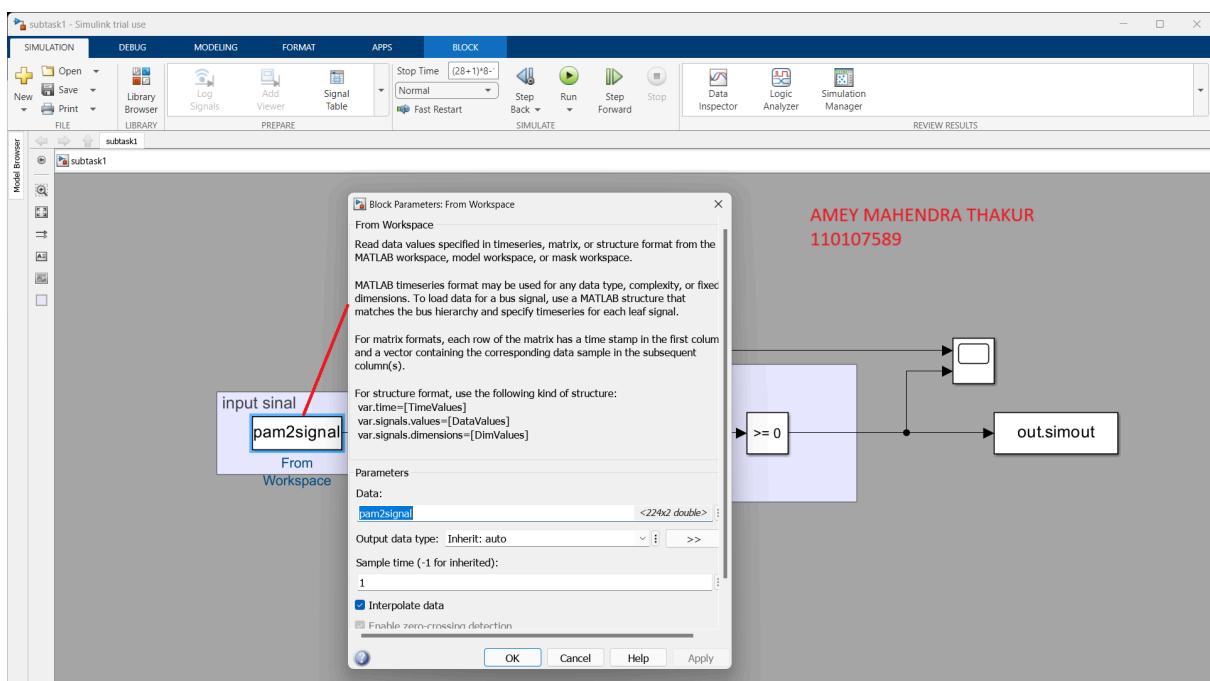
Subtask - 1

The screenshot displayed below illustrates the subtask-1 block, where the input "pam2signal" is sourced from the file provided for the task.

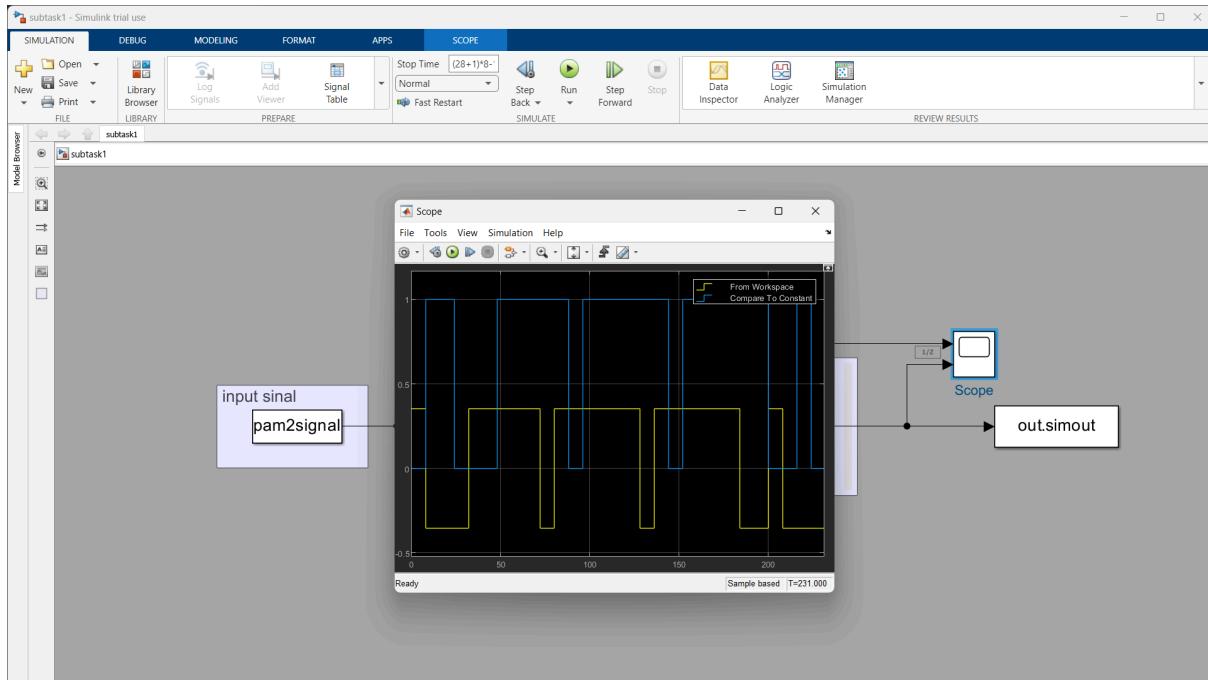


Input signal and detector design:

For subtask-1, the detector parameters are identical to those of the BPMA detector. Regarding the input signal, the block parameters are as indicated below.



Scope result :



ASCII message output:

Secret message = "Good"

