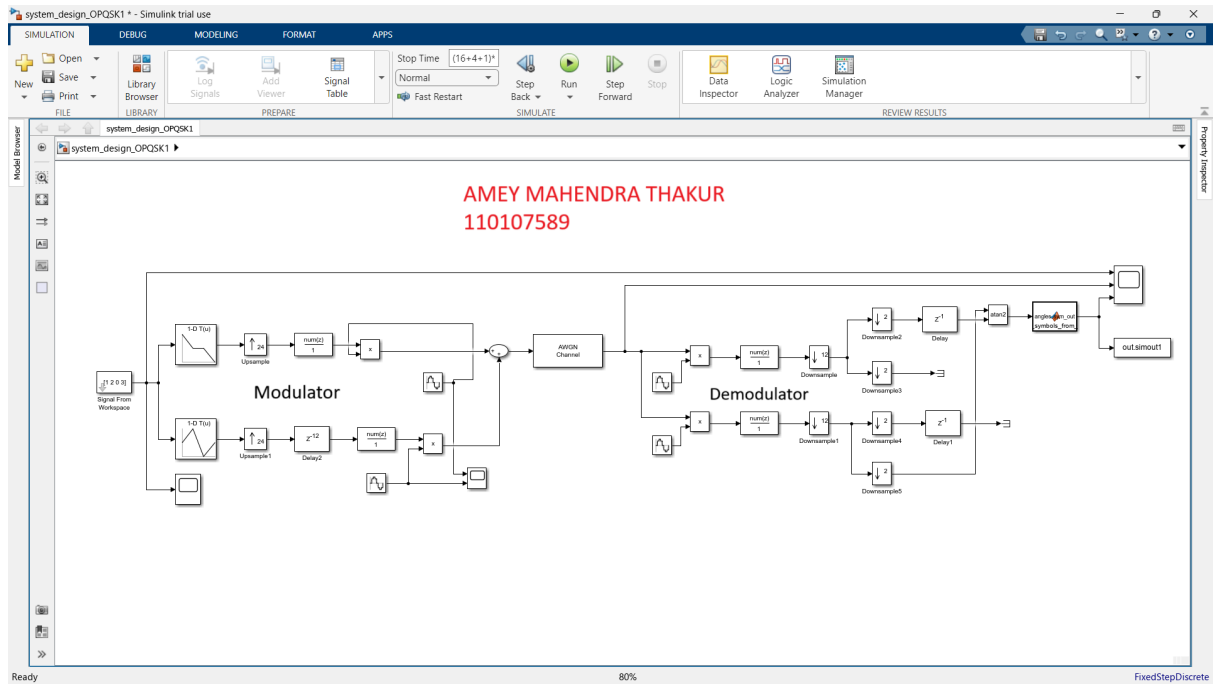


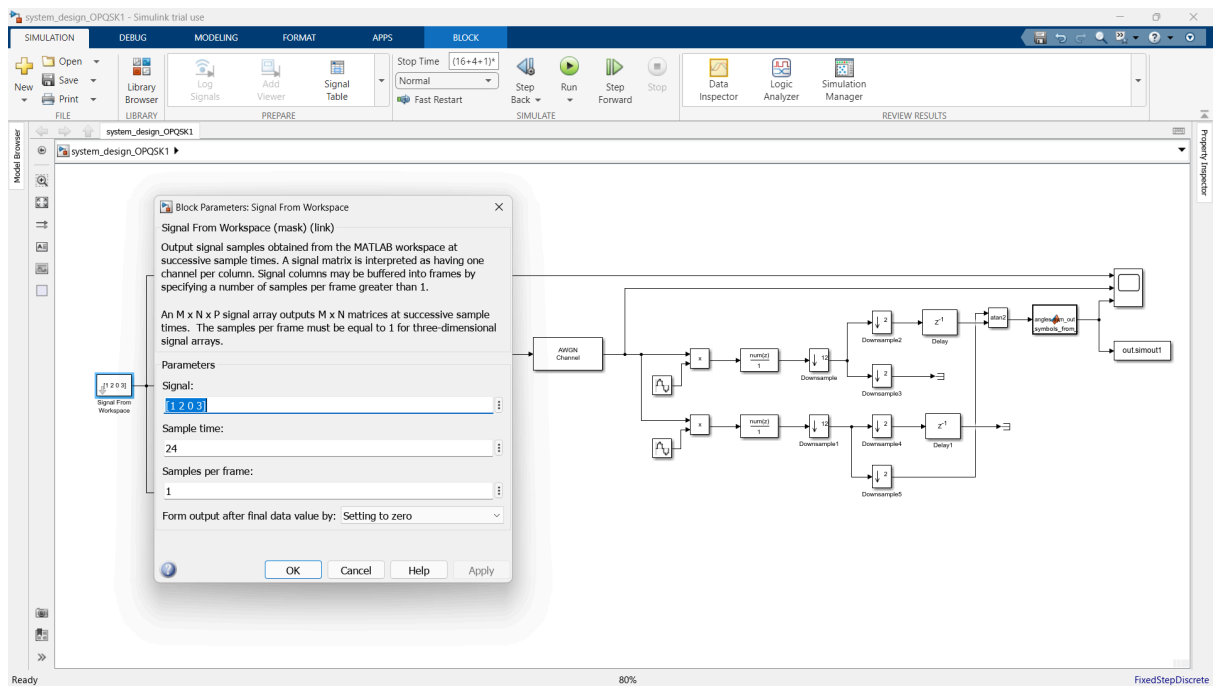
Task 5: Offset Quadrature Phase Shift Keying (OQPSK)

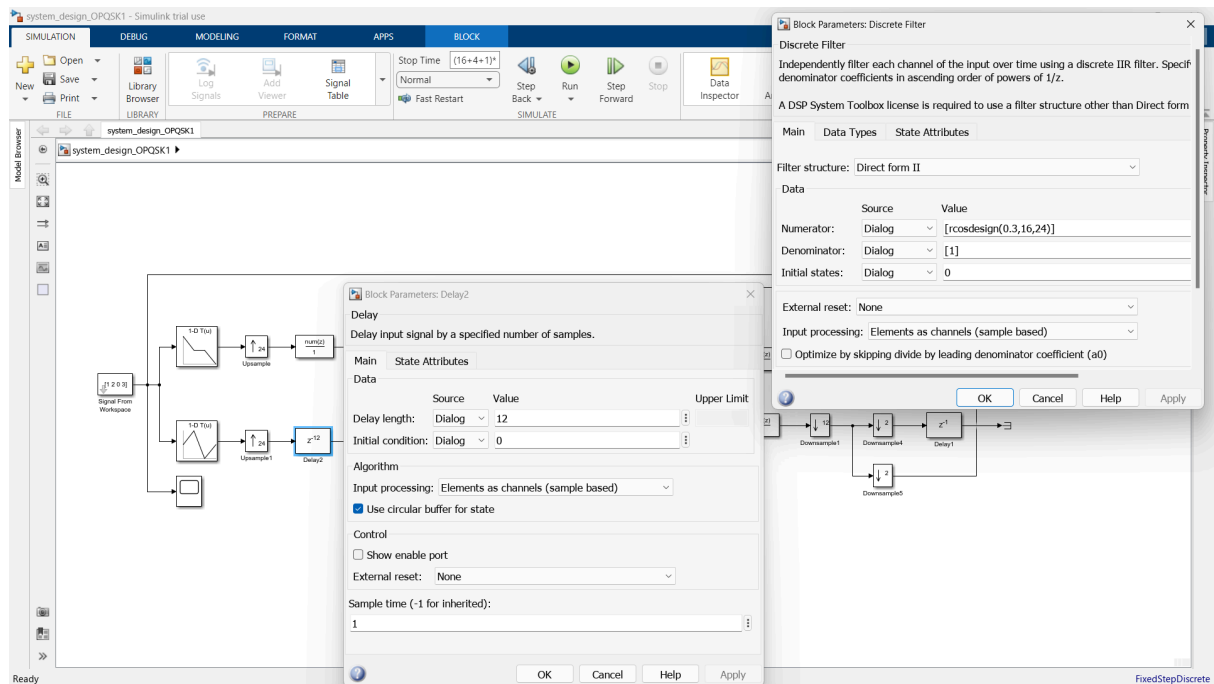
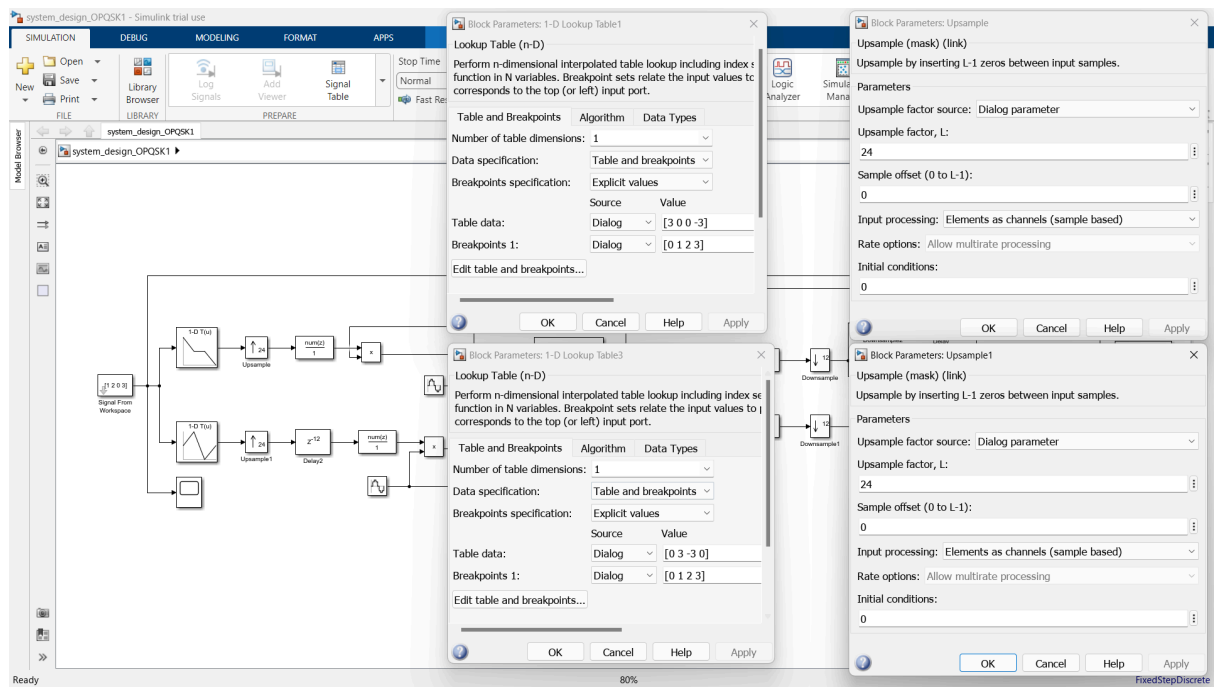
OQPSK system design & Subtask 1

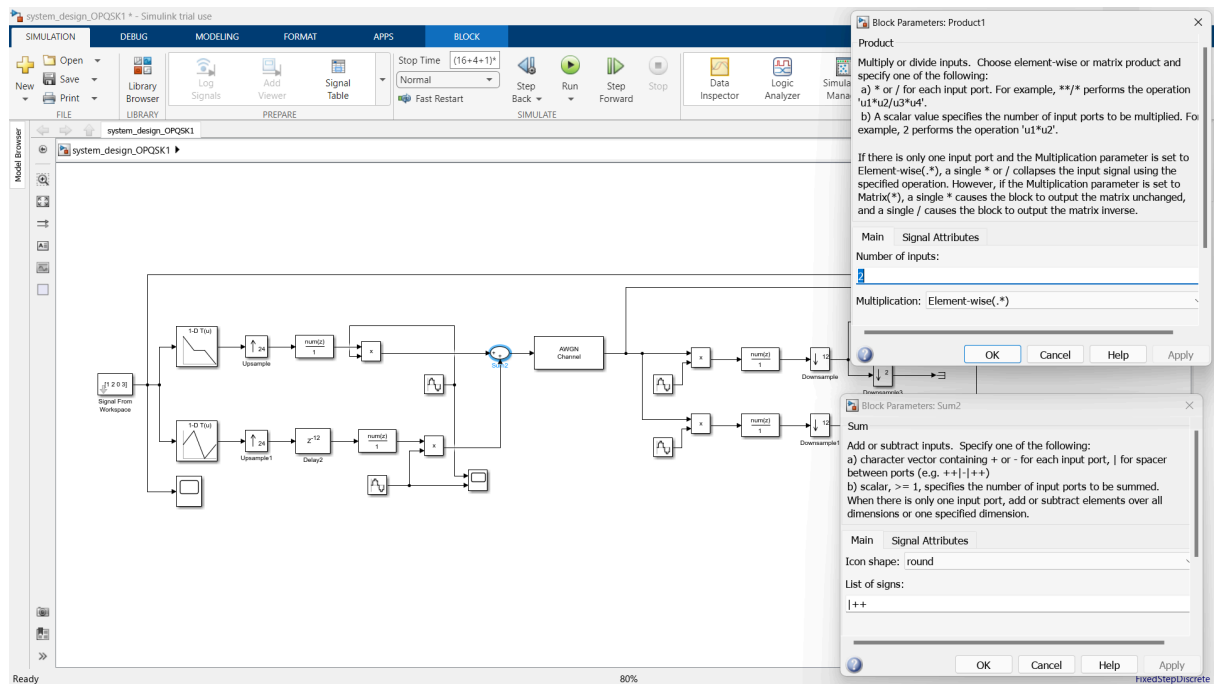
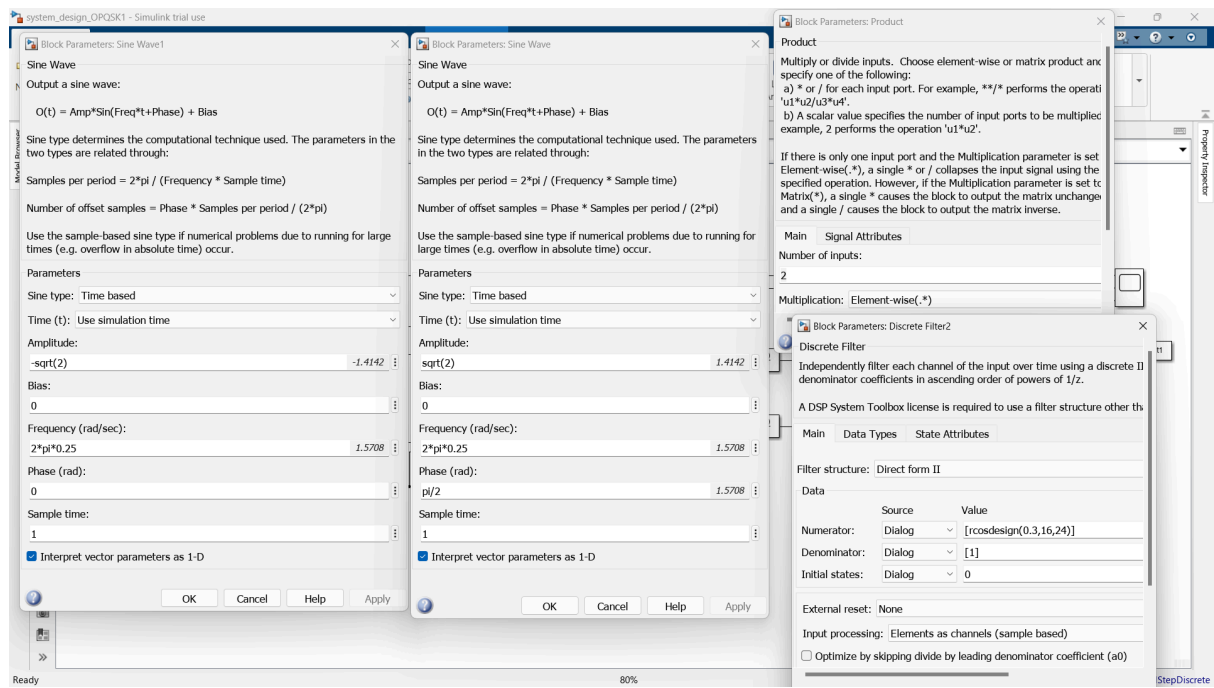
OQPSK system design



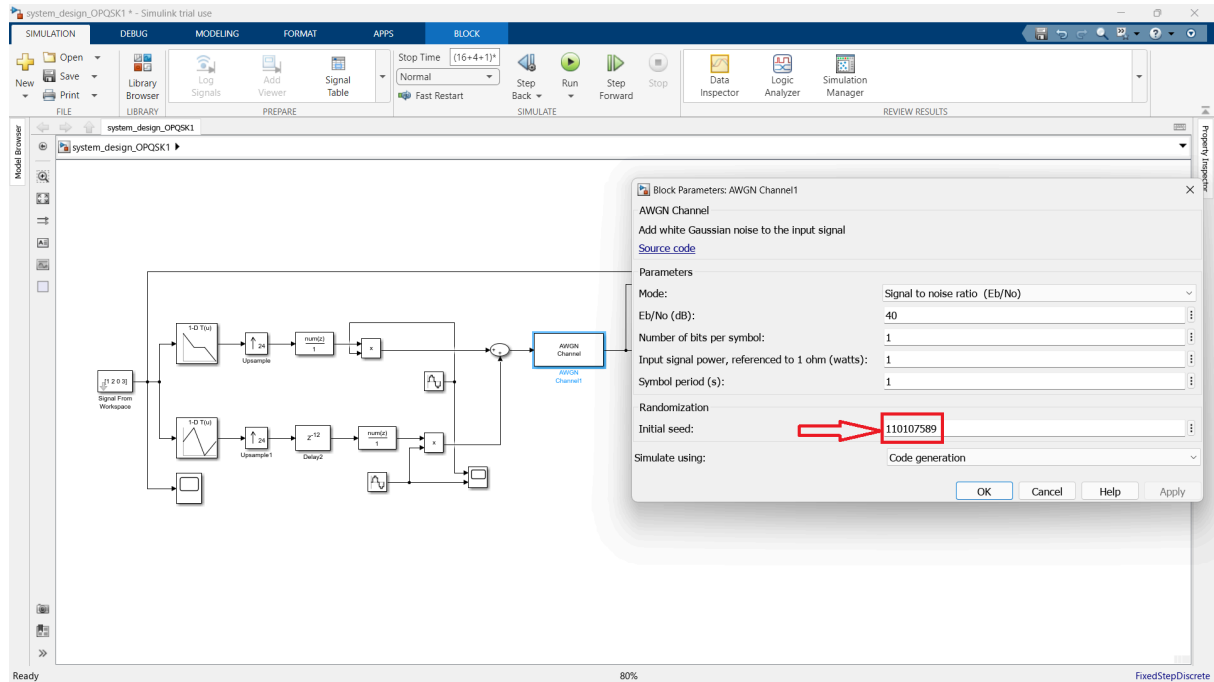
Modulator:



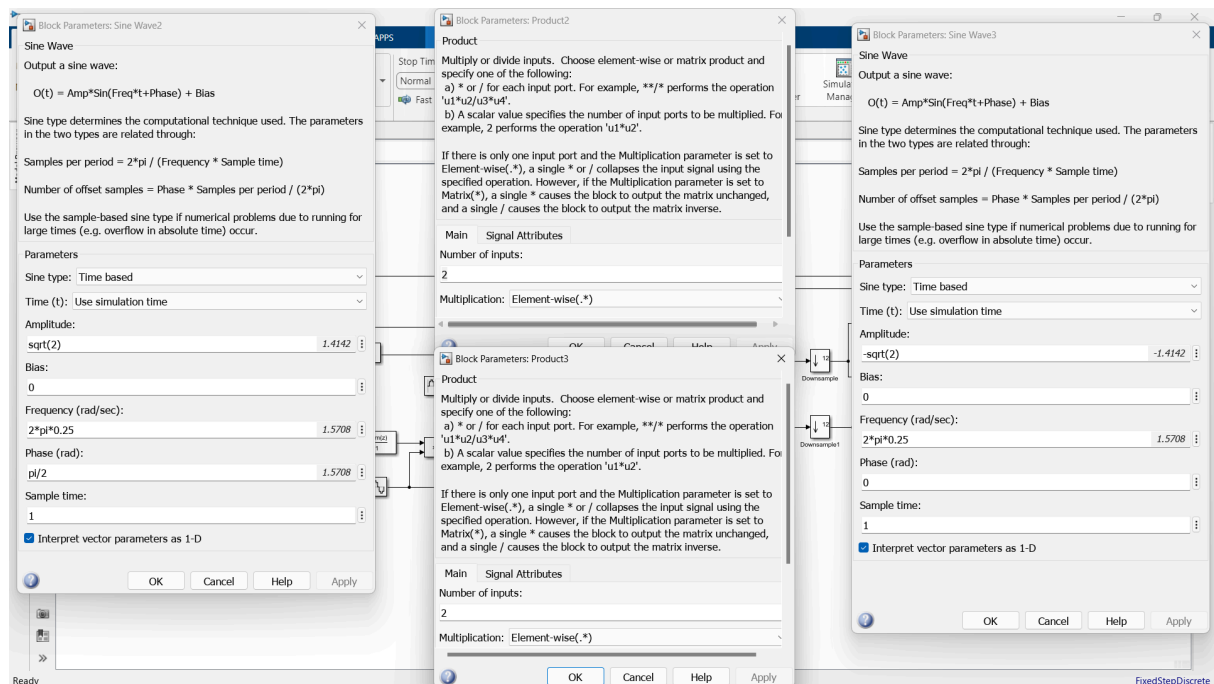


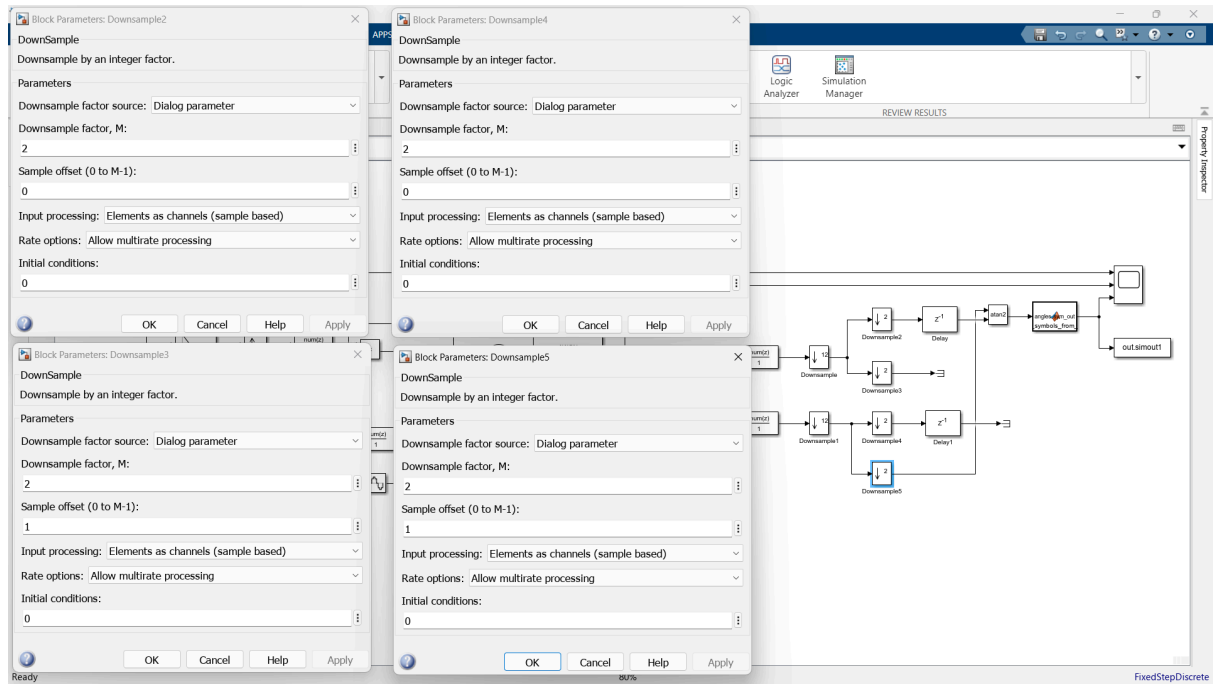
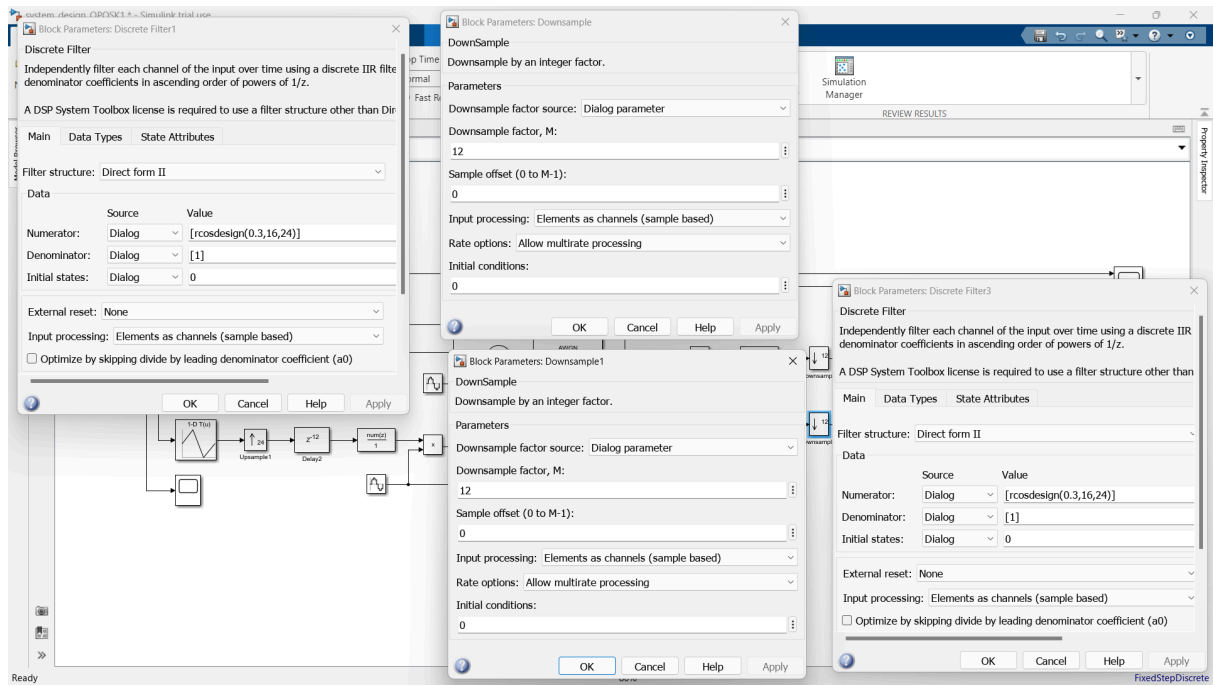


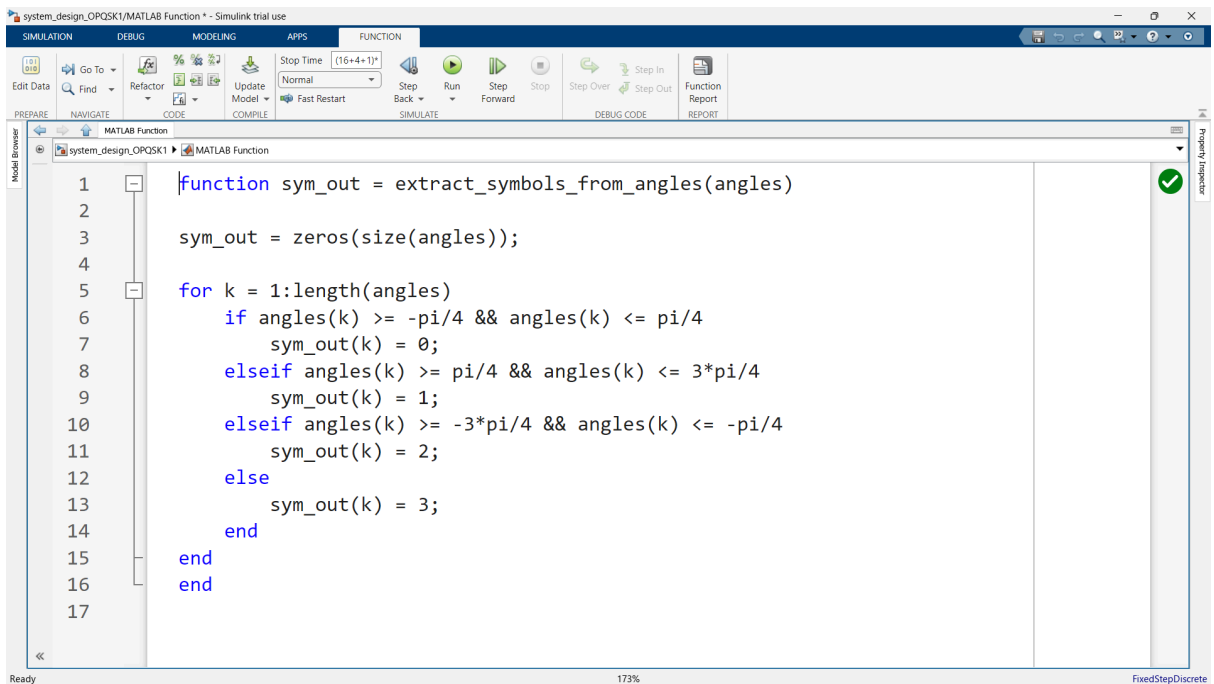
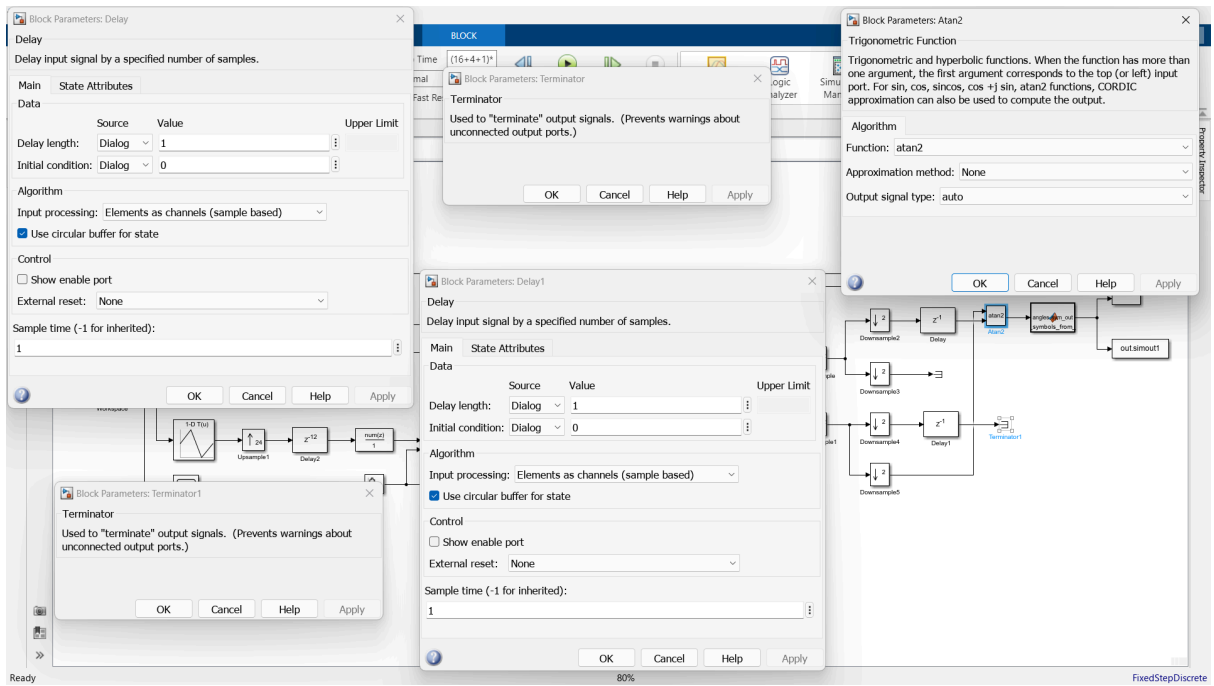
AWGN Channel:

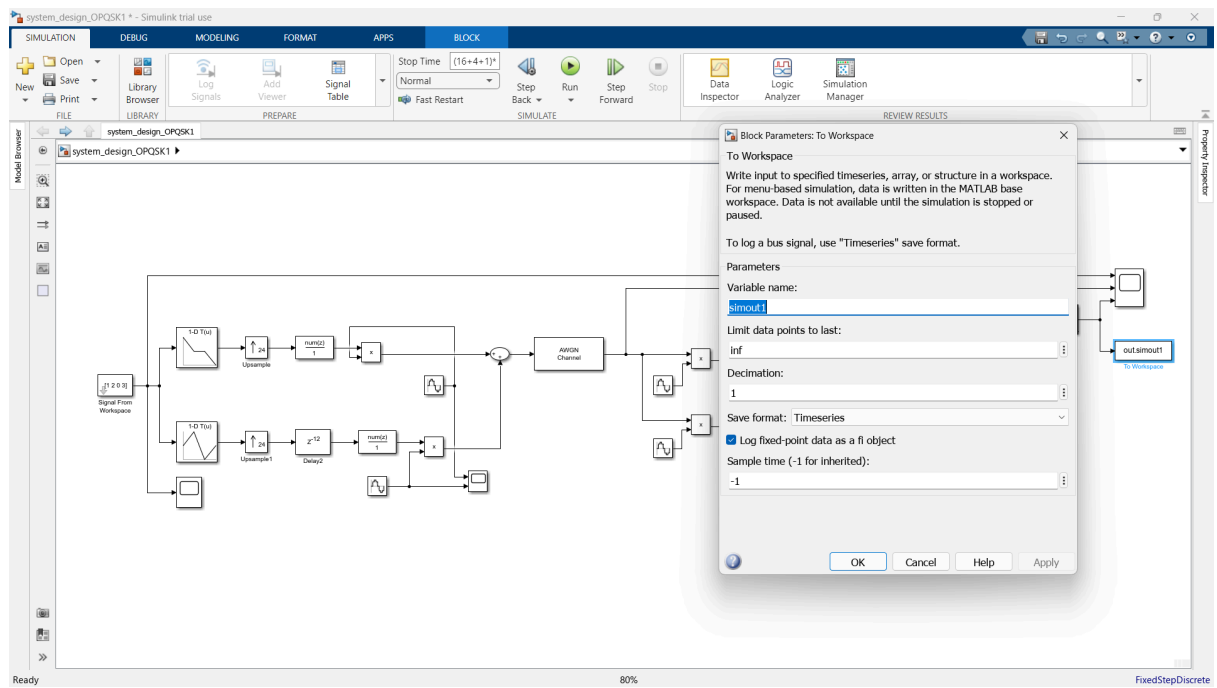


Demodulator:

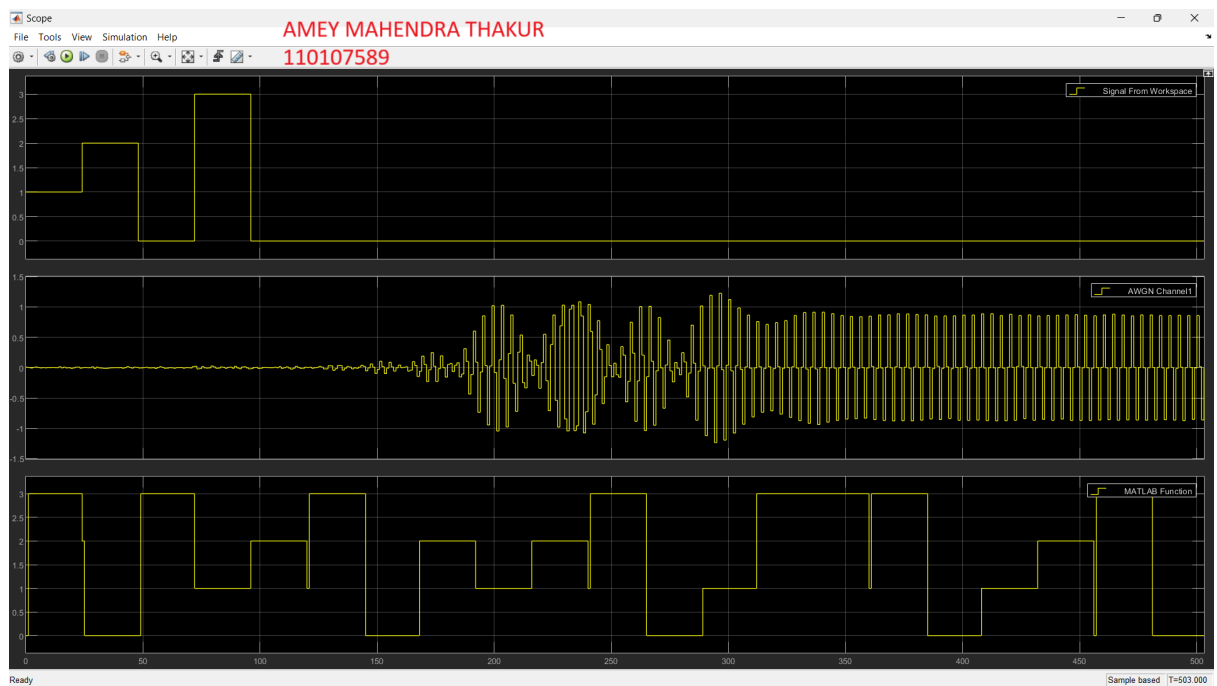








Scope and workspace output:

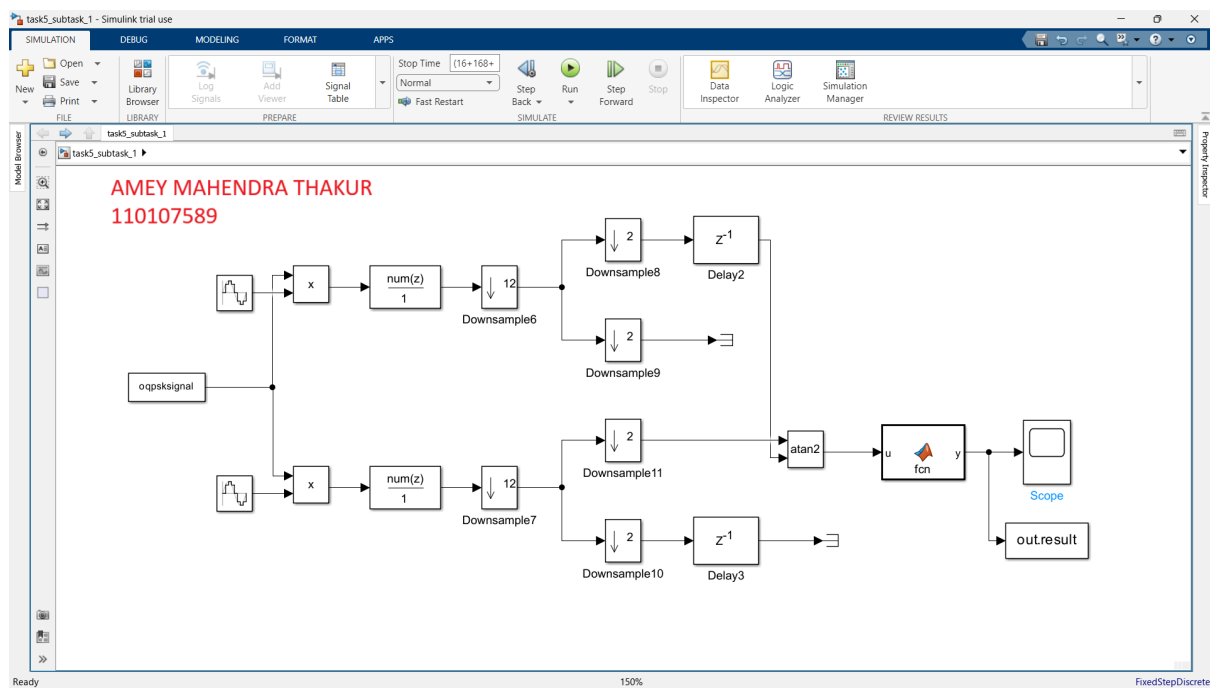
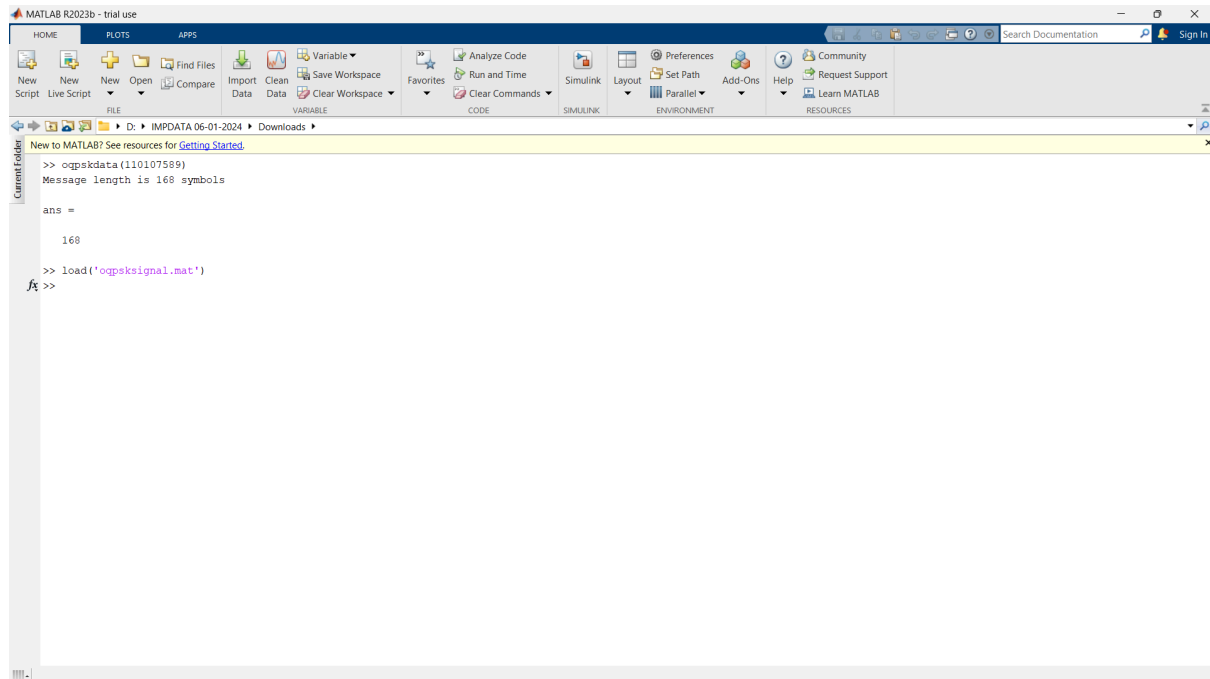


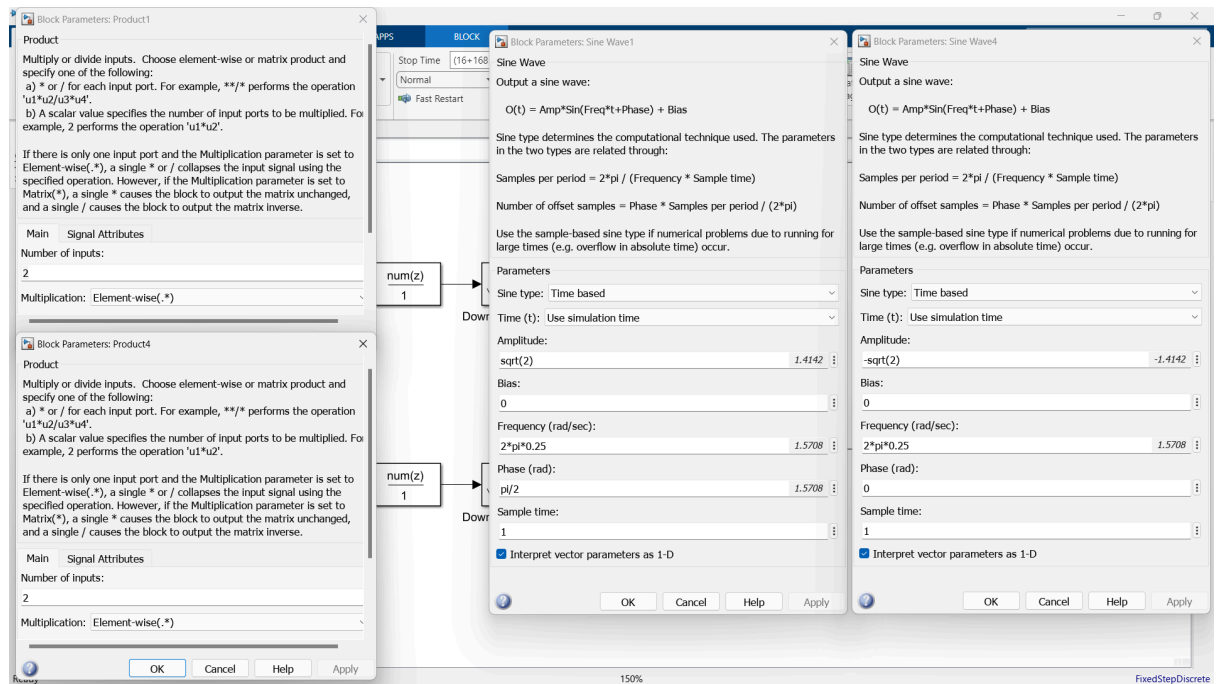
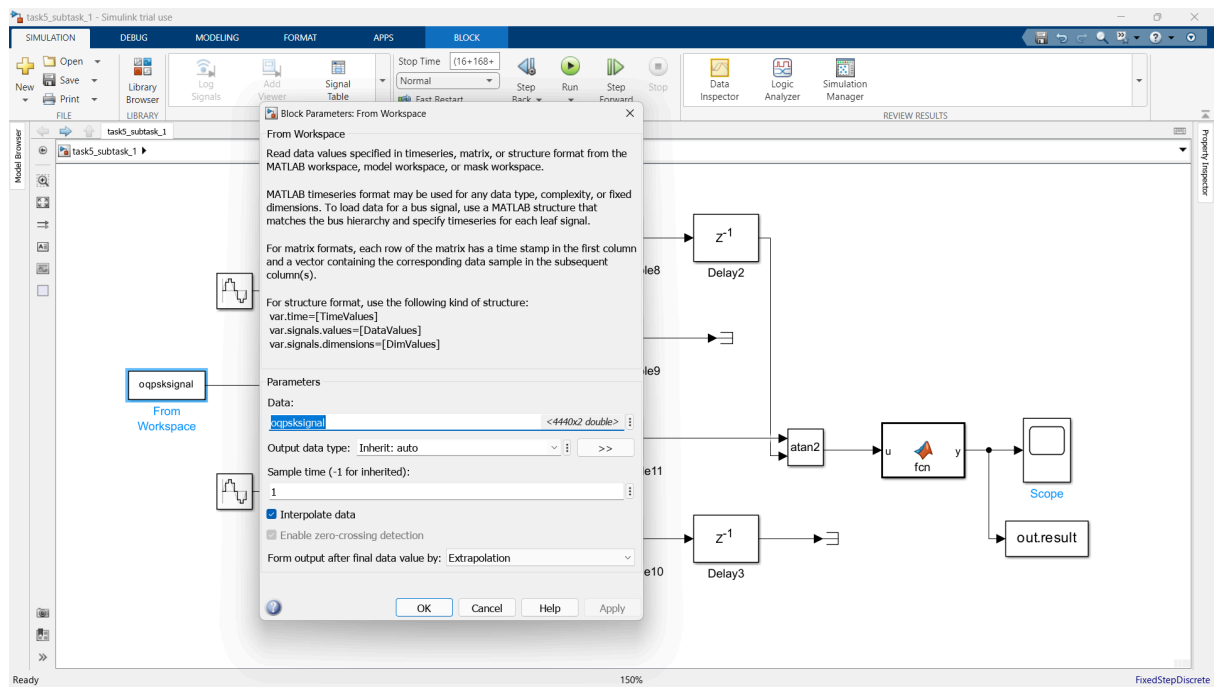
subtask 1

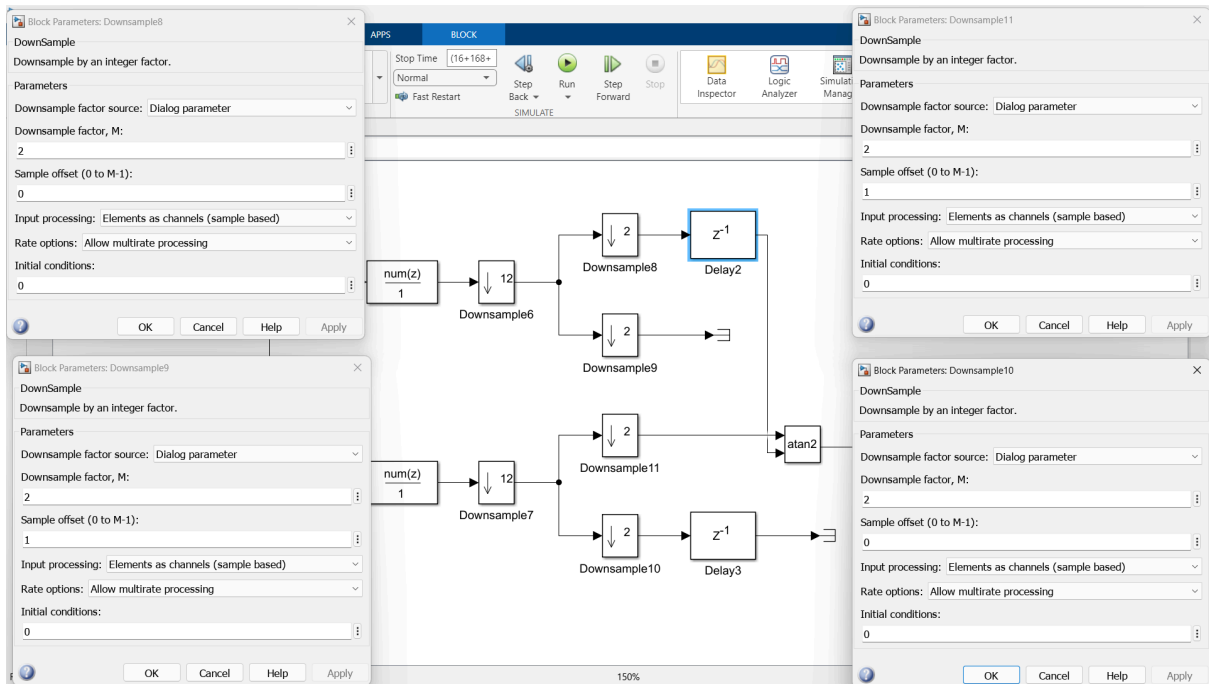
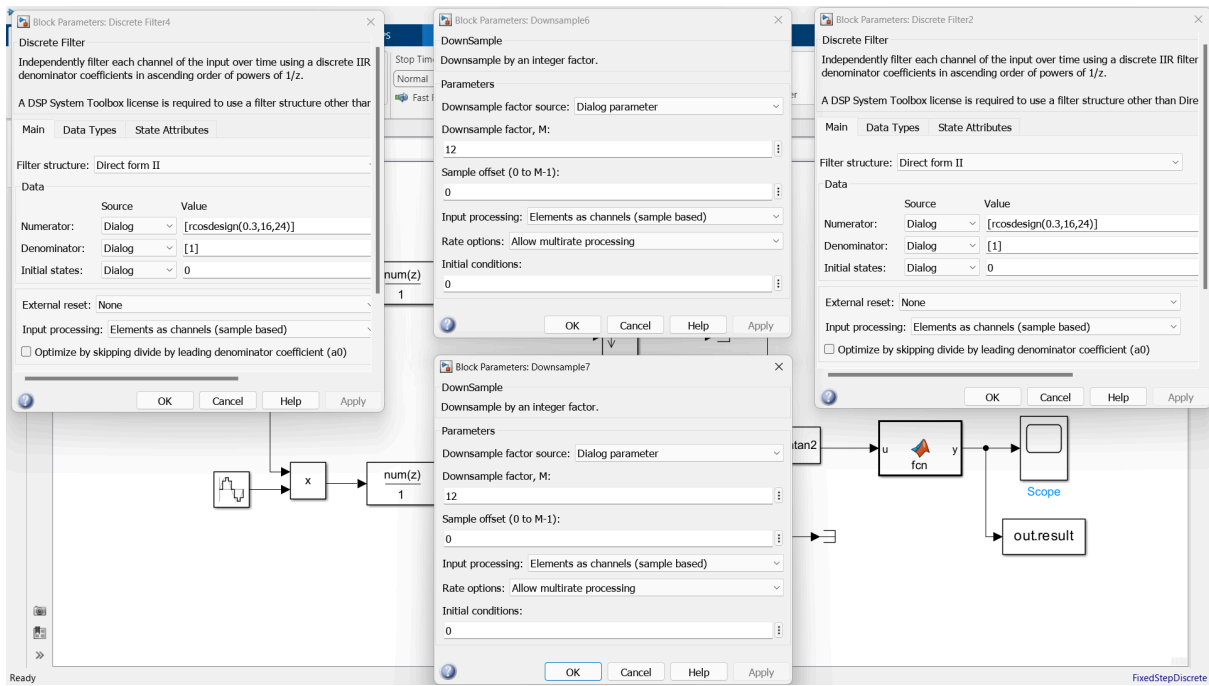
Locate oqpskdata file in matlab directory.

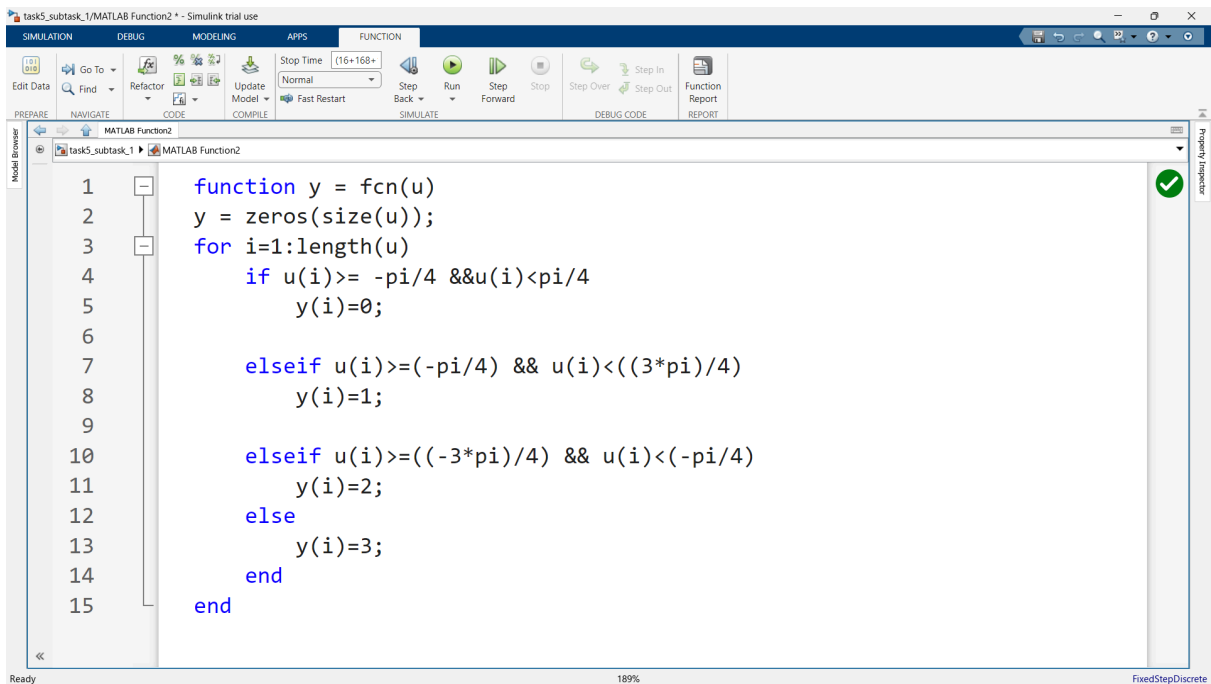
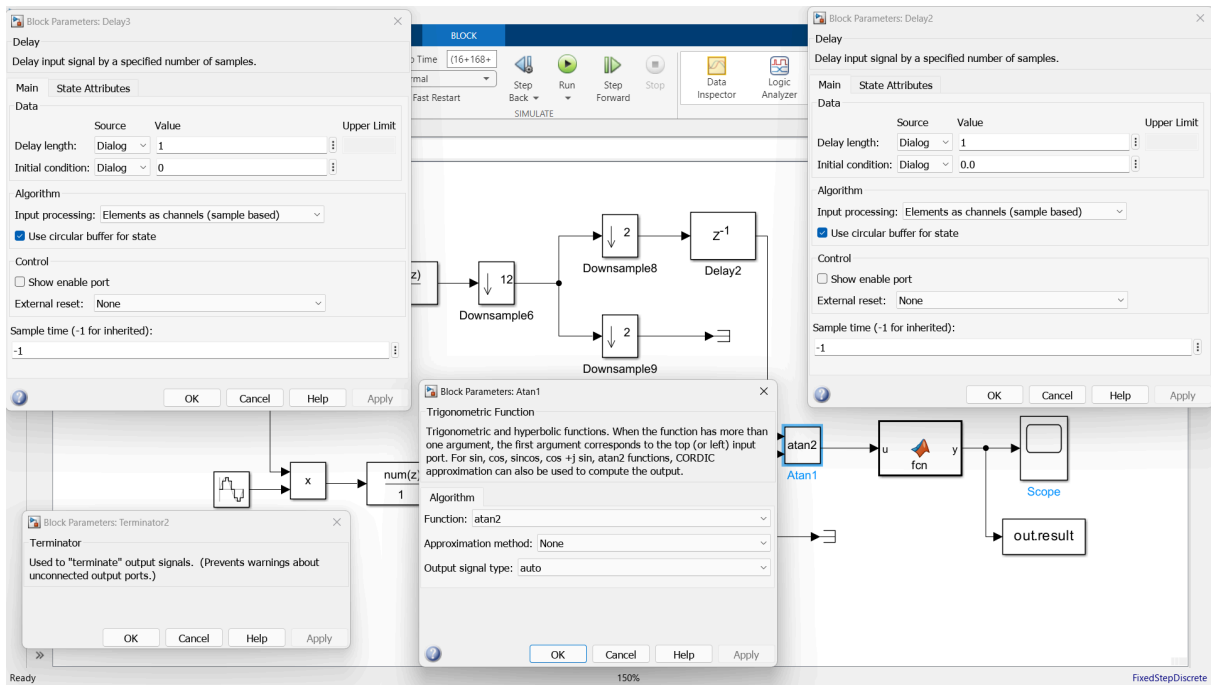
(K = 168)

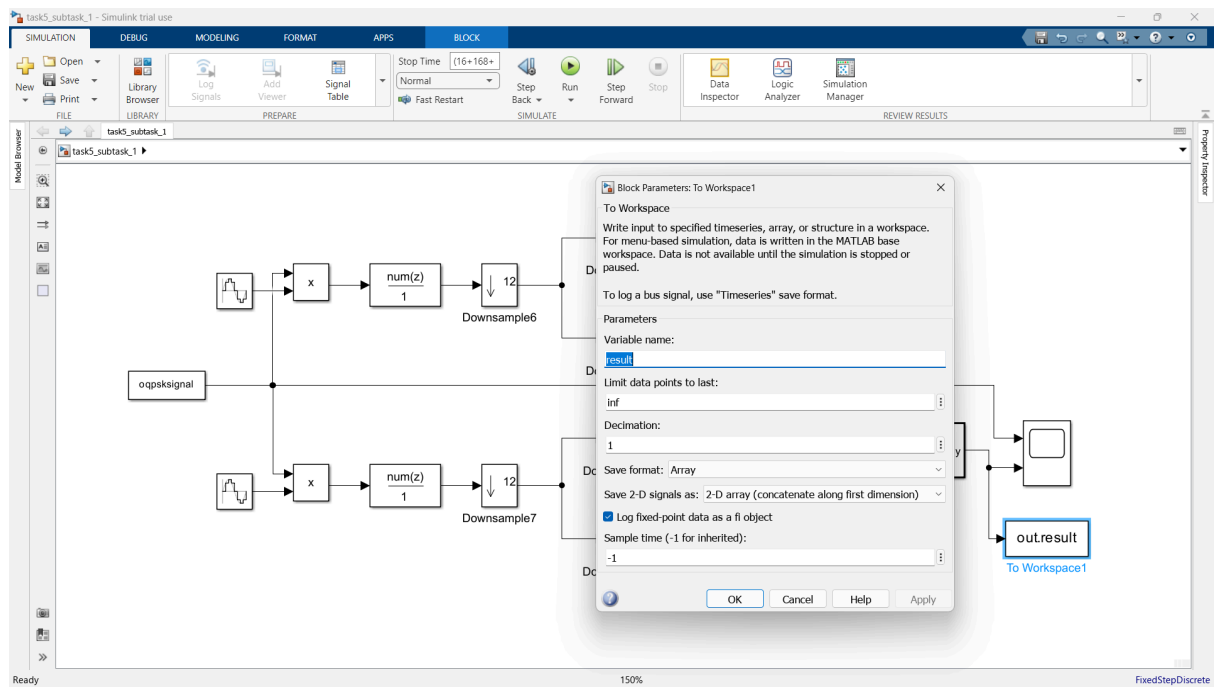
Load qam16signal.mat



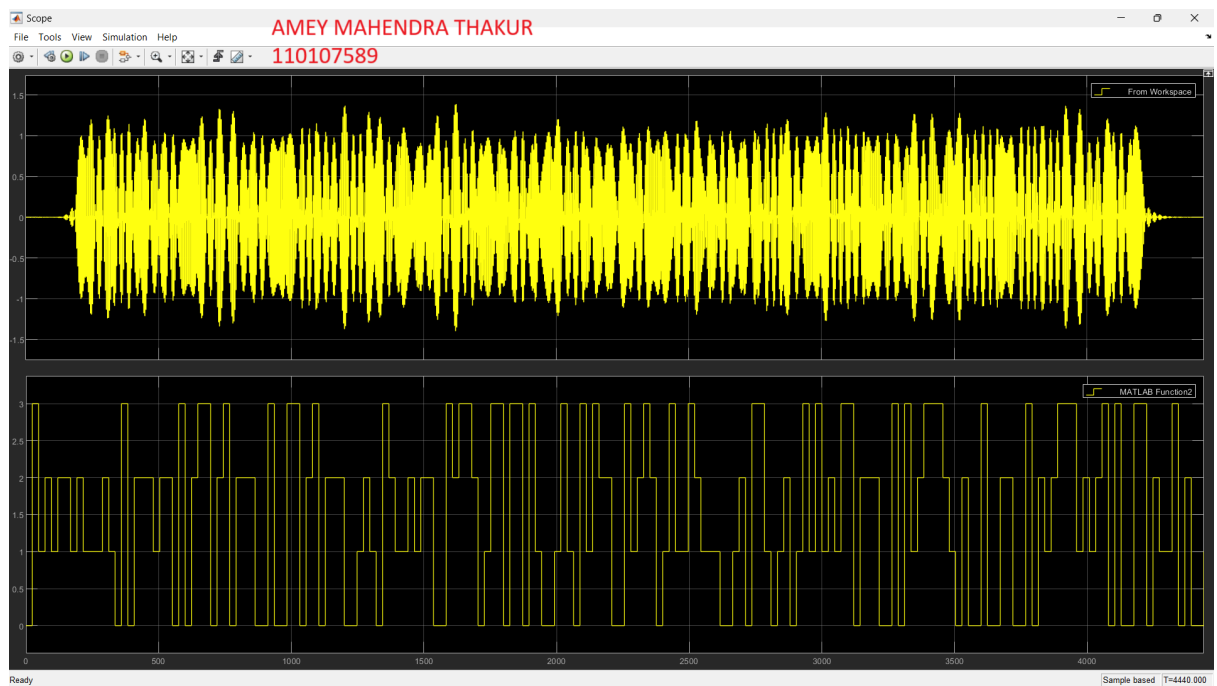








Scope and workspace output:



Secret message:

```
sym_msg = out.result(end-168:end-1);  
ascii_msg = char(bin2dec(num2str(reshape(dec2bin(sym_msg,log2(2)).',7,[]).')))).'
```

Secret message is **'There are 293 ways to make change for a dollar. '**

