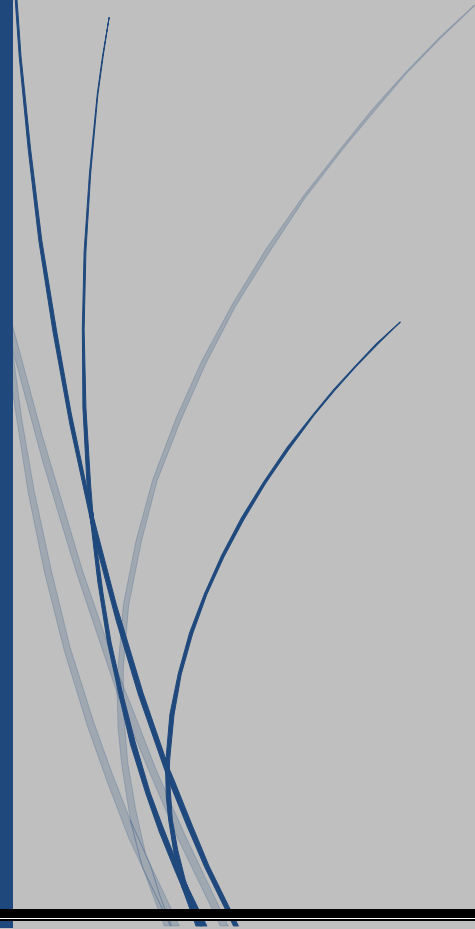# DATA COMMUNICATION

PRACTICAL 1

DESCRIPTION:

In This Practical Session (CW1) (Practical1). I Have Taken 3 Screenshots to Prove My MATLAB Simulink Practical, Of How Sine Wave Works!!

→By adding two sine waves to get amplitude always 0.

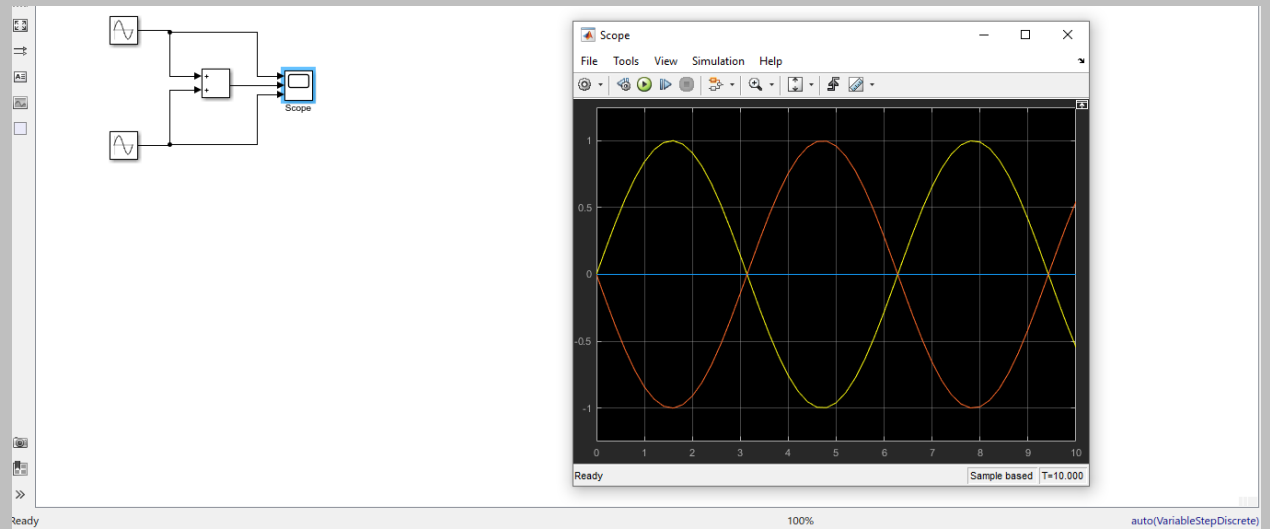**1st Picture>** In this Simulink, I added 2 sine waves,

1sinewave to -1 amplitude

2sinewave to 1 amplitude

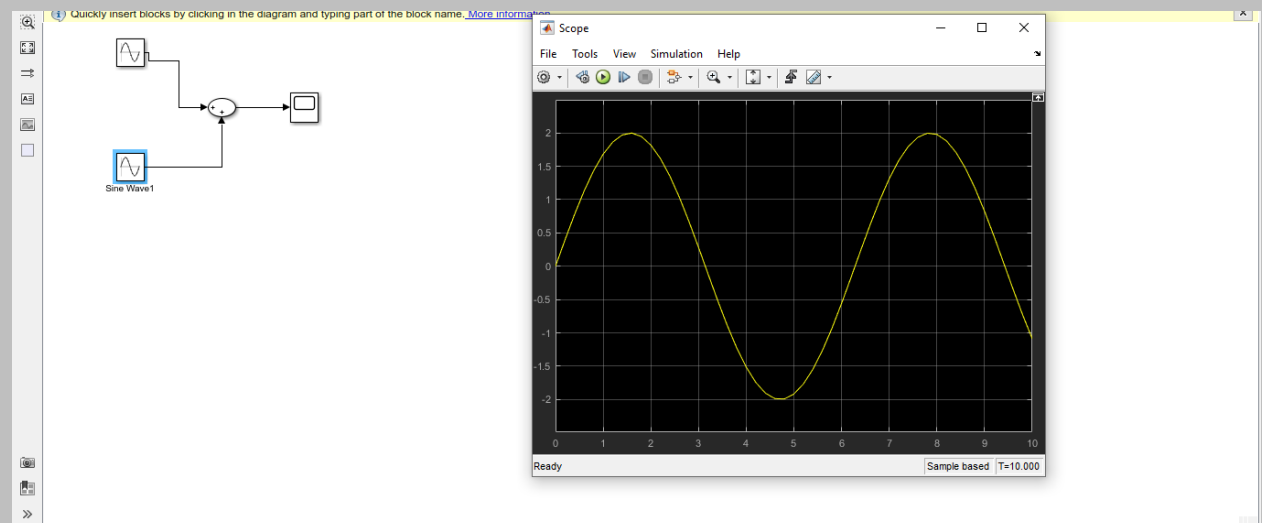**2nd Picture>** In this Simulink, I added 2 sine waves,

1sinewave to -1 amplitude & Bias value to 180

2sinewave to 1 amplitude & Bias value to 0

1st Picture>

2nd Picture>

PRACTICAL 1

2019/07/17

DESCRIPTION:

In This Practical Session (CW1) (Practical2). I Have Taken 3 Screenshots to Prove My MATLAB Simulink Practical, Of How Sine Wave Works!!

1st Picture> In this Simulink, I added 4 sine wave, 1sum & 1Scope.

1sinewave to 1 amplitude to 1 frequency.

2sinewave to 1/3 amplitude to 3 frequency.

3sinewave to 1 /5 amplitude to 5 frequency.

4sinewave to 1 /7 amplitude to 7 frequency.

2nd Picture> In this Simulink, I added 4 sine wave 1sum & 1Scope.

1sinewave to 1 amplitude to 1 frequency.

2sinewave to 1/3 amplitude to 3 frequency.

3sinewave to 1 /5 amplitude to 5 frequency.

4sinewave to 1 /7 amplitude to 7 frequency.

5sinewave to 1 /9 amplitude to 7 frequency.

6sinewave to 1 /11 amplitude to 7 frequency.

7sinewave to 1 /13 amplitude to 7 frequency.

8sinewave to 1 /15 amplitude to 7 frequency.

2nd Picture> In this Simulink, I added 4 sine wave 1sum & 1Scope.

3rd Picture> In this Simulink, I added 1 sine wave 1 FM modulator passband & a scope.

(Instruction),

1sinewave to 1 amplitude,2 frequency and sample time 0.001

1FM Modulator Passband with carrier frequency 30Hz and frequency division 5

1Scope

4th Picture> In this Simulink, I added 1 sine wave 1 FM modulator passband & a scope,

(Instruction)

1sinewave to 1 amplitude, 1 frequency and sample time 0.001

1 DSB AM Modulator Passband with Input signal offset:1 and carrier frequency 30Hz.
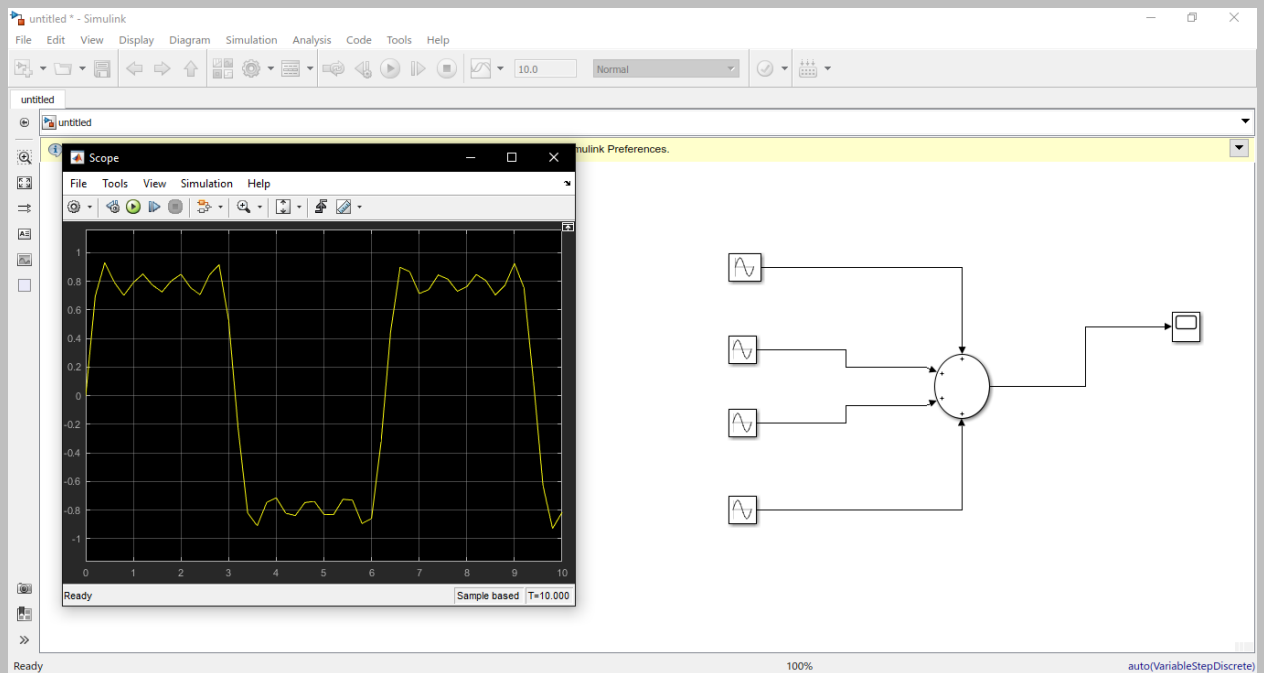
1Scope

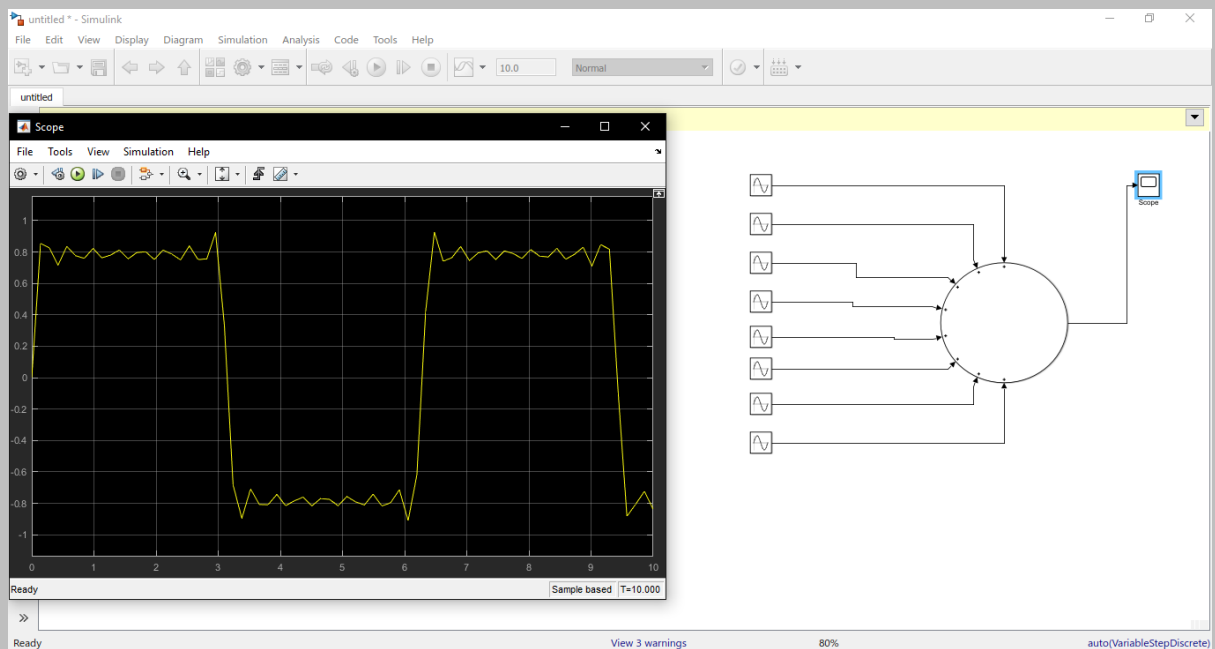So, The Below Screenshots Are the Result After Changing the Amplitude & Frequency!

As Well As the DSL AM & FM Modulator Passband!
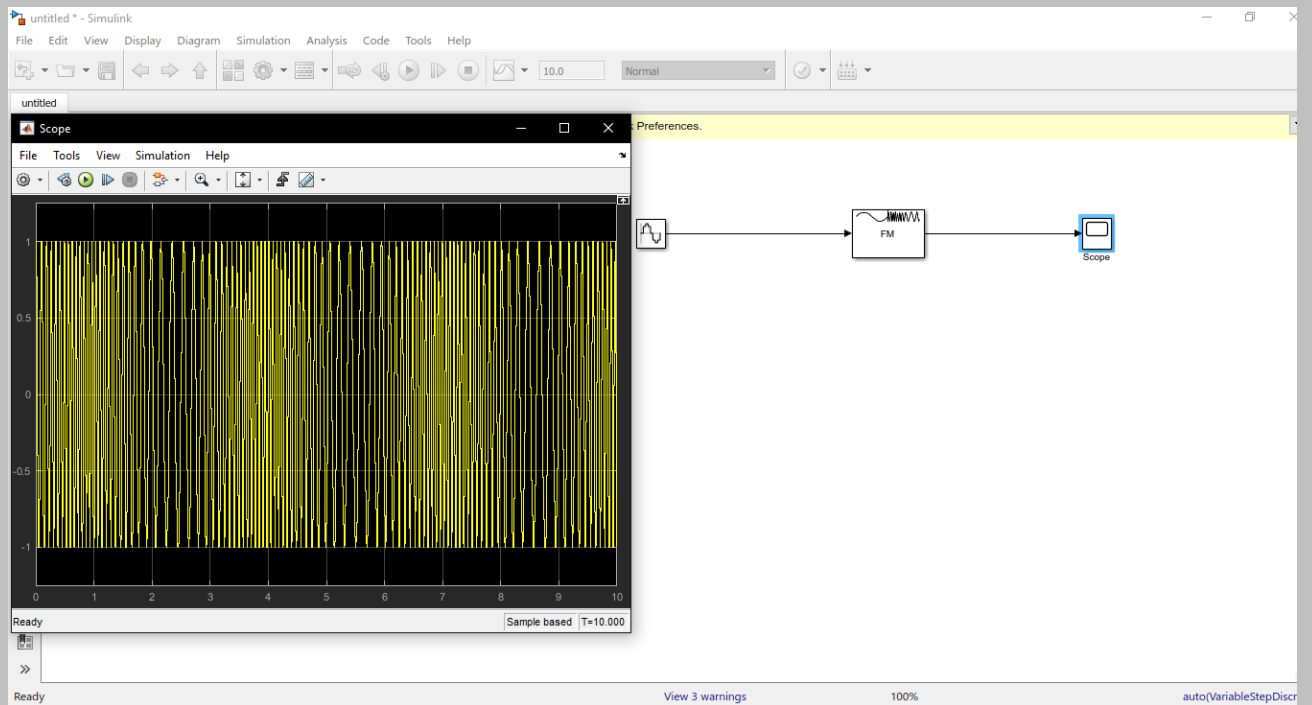
According to Sir's Expectation!

1st Screenshot

2nd Screenshot

3rd Screenshot

JADHUSAN

4th Screenshot