American International University, Bangladesh



Data Communication

Section: E

Semester: Summer 2021-22

Course Instructor: Tanjil Amin

Experiment no: 07

Experiment Name: Study of Amplitude Modulator and Demodulator using Simulink

Submitted by:

| Name | ID |
|-----------------------|------------|
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Here, Used message signal: $m(t) = (2*\sin(2*pi*4*t)+3*\cos(2*pi*6*t))$

In first sine wave:

Amplitude: 2

Frequency: 2*pi*4

Sample time; 1/5000

In 2nd sine wave:

Amplitude: 3

Frequency: 2*pi*6

Phase: pi/2

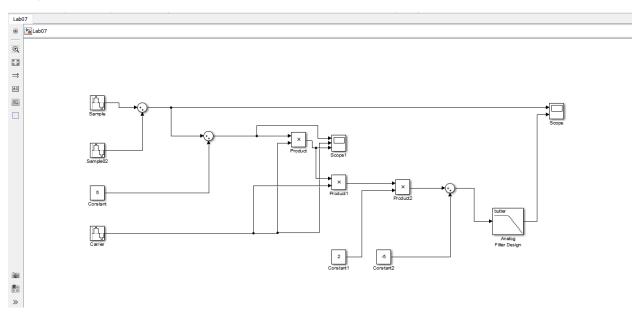
Sample time; 1/5000

Constant: 5

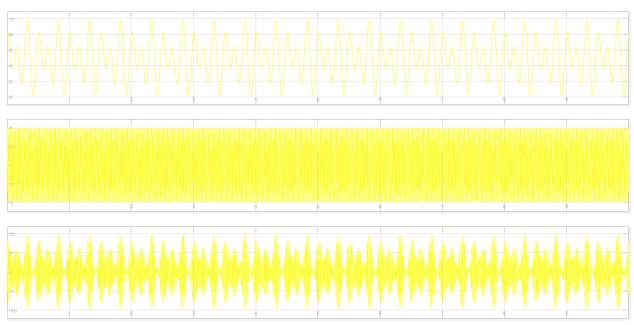
Constant 1: 2

Constant 2: -5

Diagram:



Modulated Signals:



Demodulated Signal:

