



Study of Digital to Analog Conversion using MATLAB

Lab Report 5

Data Communication [D]

Submitted by:

<i>NAME</i>	<i>ID</i>
<i>MD. FAHIM KABIR CHOWDHURY</i>	<i>20-42595-1</i>

Submitted to:

AFSAH SHARMIN

Assistant Professor

Faculty of Science and Technology

American International University-Bangladesh (AIUB)

MATLAB code for digital to analog modulation (ask, fsk and psk):

```
close all;
clc; f=5;
f2=10;
x=[1 1 0 0 1 0 1 0]
% input signal ;
nx=size(x,2); i=1;
while i<nx+1  t =
i:0.001:i+1;  if
x(i)==1
ask=sin(2*pi*f*t);
fsk=sin(2*pi*f*t);
psk=sin(2*pi*f*t);
else ask=0;
fsk=sin(2*pi*f2*t);
psk=sin(2*pi*f*t+pi); end
subplot(3,1,1);
plot(t,ask); hold on; grid
on; axis([1 10 -1 1]);
title('Amplitude Shift Key')
subplot(3,1,2);
plot(t,fsk); hold on; grid
on; axis([1 10 -1 1]);
title('Frequency Shift Key')
subplot(3,1,3);
plot(t,psk); hold on; grid
on; axis([1 10 -1 1]);
title('Phase Shift Key')
i=i+1; end
```

`x = 1x8 double`

1 1 0 0 1 0 1 0

