



American International University-Bangladesh (AIUB)

Department of Computer Science

Lab Report-05

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SECTION : **G**

COURSE NAME : DATA COMMUNICATION

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Title: Study of Digital to Analog Conversion using MATLAB

Performance Task:

ID = AB-CDEFG-H

My ID = 17-34465-2

Here,

A= 1, B= 7, C= 3, D= 4, E= 4, F= 6, G= 5, H= 2.

(a) Convert DEF into Binary Bits (consider ASCII)

Converting D, E, F into 8-bit ASCII characters,

D = 4 =00110100

E = 4 =00110100

F = 6 = 00110110

So, 24-bit ASCII characters will be,

00110100 00110100 00110110

(b) Show the modulated analog signal considering

- BASK

-BFSK

-BPSK , and

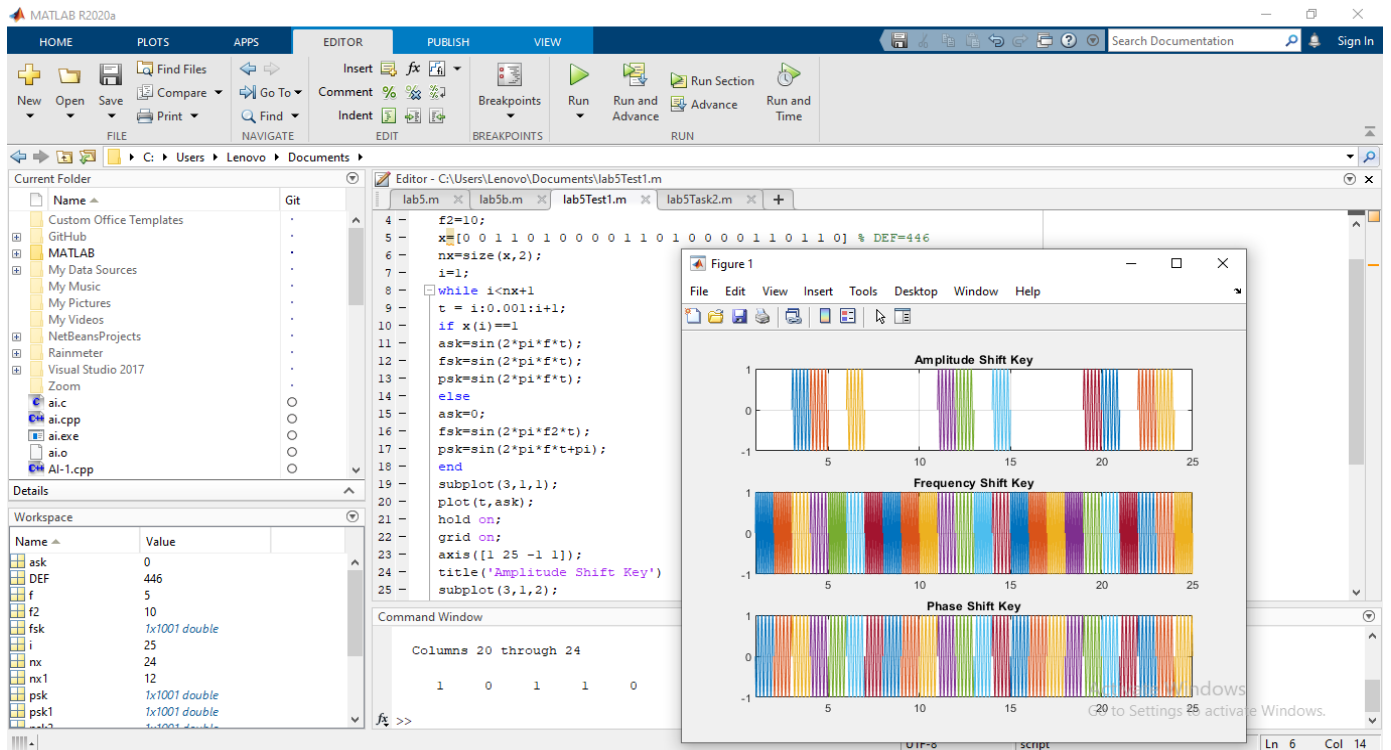
-QPSK

For 8- BASK, 8- BFSK, 8- BPSK :

$$r = \log_2 L = \log_2 (8) = 3$$

So, there will be 3 bits in 1 level.

$x=[00110100\ 00110100\ 00110110];$



For 8- QPSK:

