



## AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Engineering  
Department of EEE and CoE  
Undergraduate Program

Course: Data Communication

Fall 2021-22, FINAL

### Experiment 9: Message Passing and Receiving Using Modulator and Demodulator (Part 1: Transmitter Side).

Submitted by:

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Section: F

Submitted To

**AFSAH SHARMIN**

Lecturer

Faculty of Engineering

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## Performance Task for Lab Report:

(a)

```
untitled4.m x untitled3.m x untitled2.m x asc2bn.m x Lab9.m x A1.m x Lab9a.m x + ID: 20-42647-1
1 function dn = asc2bn(txt)
2 dec=double(txt); %Text to ASCII (decimal)
3 p2=2.^(0:-1:-7); % 2^0,2^-1,...,2^-7
4 B=mod(floor(p2'*dec),2);
5 %Decimal to binary conversion
6 %Columns of B are bits of chars
7 dn=reshape(B,1,numel(B));%Bytes to serial conversion
8 end

Command Window
New to MATLAB? See resources for Getting Started.
Unrecognized function or variable 'akash'.

>> Lab9a('akash')

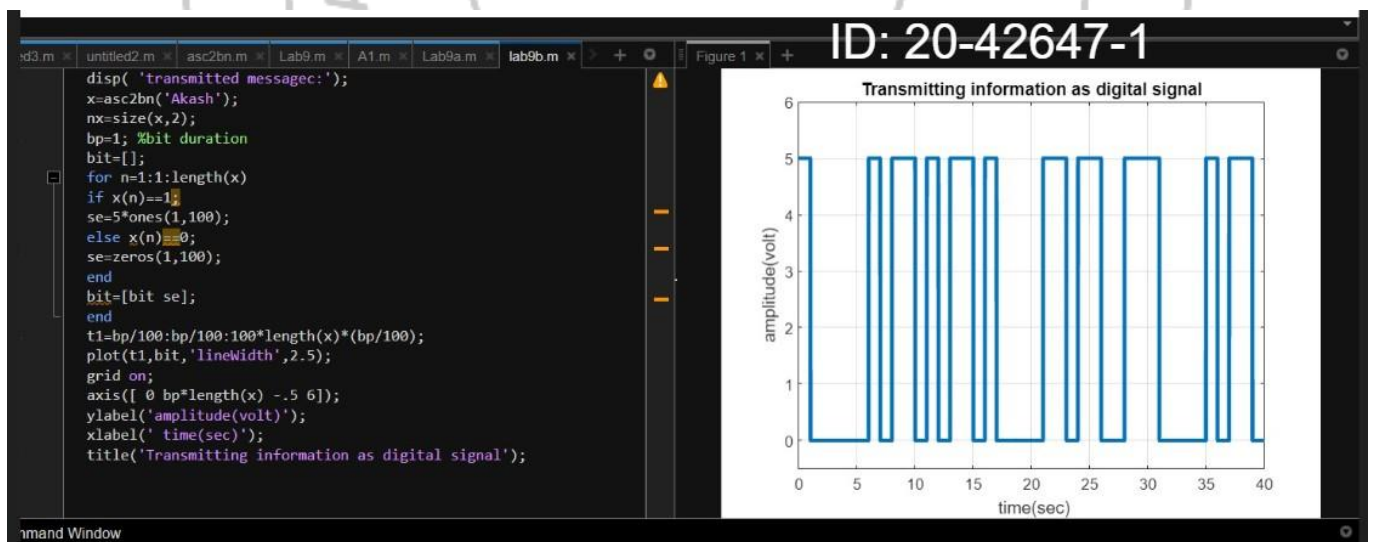
ans =

Columns 1 through 33
    1     0     0     0     0     1     1     0     1     1     0     1     0     1     1     0     0     0     0     0     1     1     0     1     1

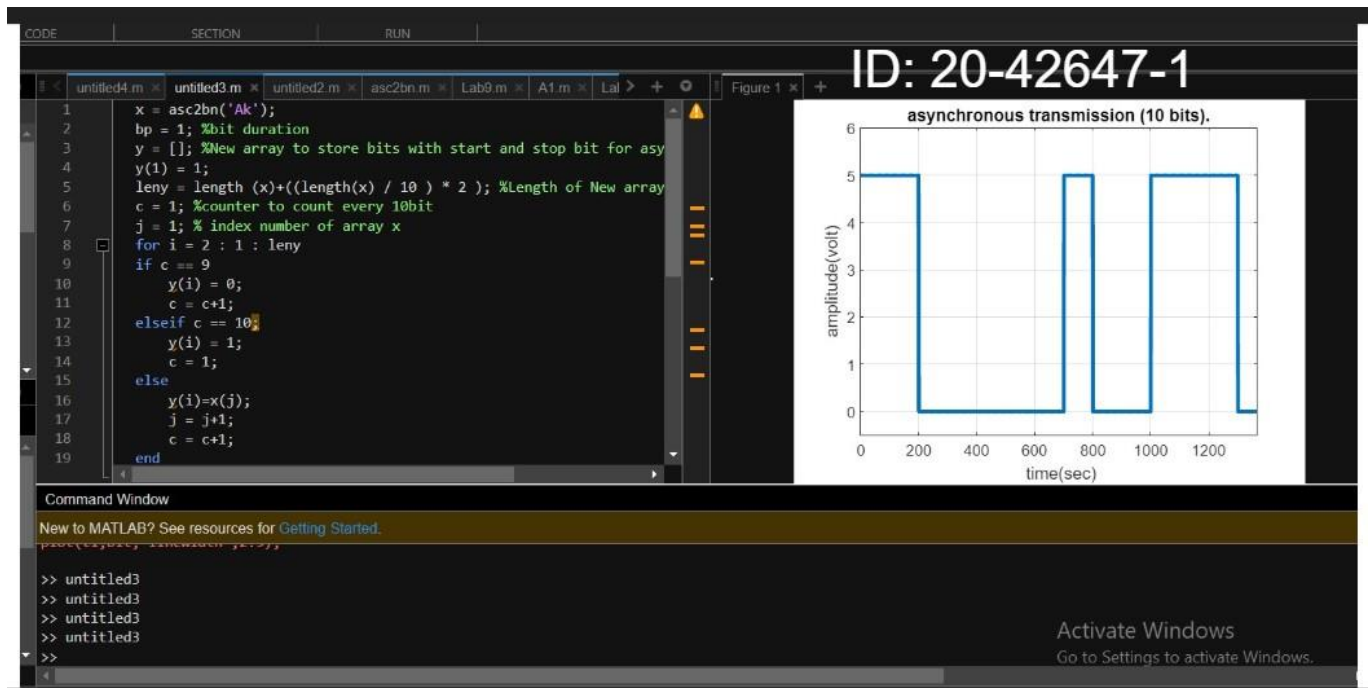
Columns 34 through 40
     0     0     1     0     1     1     0

>>
```

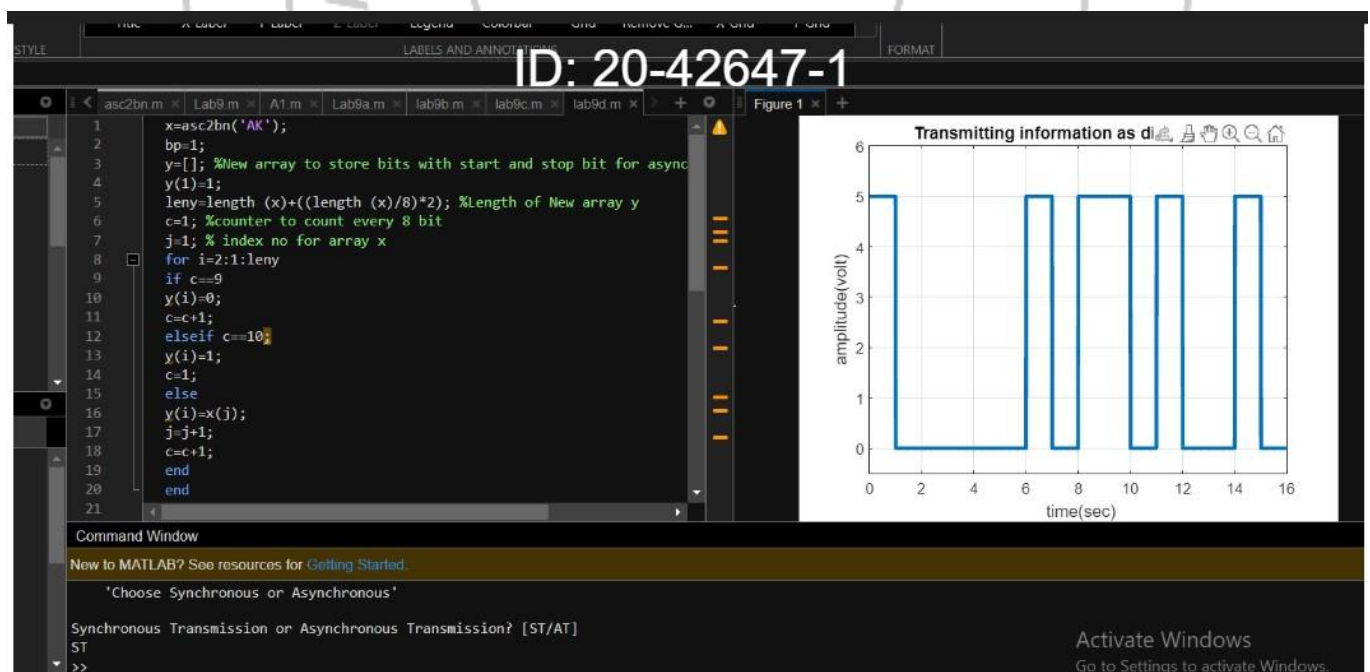
(b)



(c)



(d) if Synchronous Transmission/ST



### (d) if Asynchronous Transmission/AT

