



American International University-Bangladesh (AIUB)

Department of Computer Science

Lab Report- 09

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SECTION : **G**

COURSE NAME : DATA COMMUNICATION

SEMESTER : 2020-2021, FALL

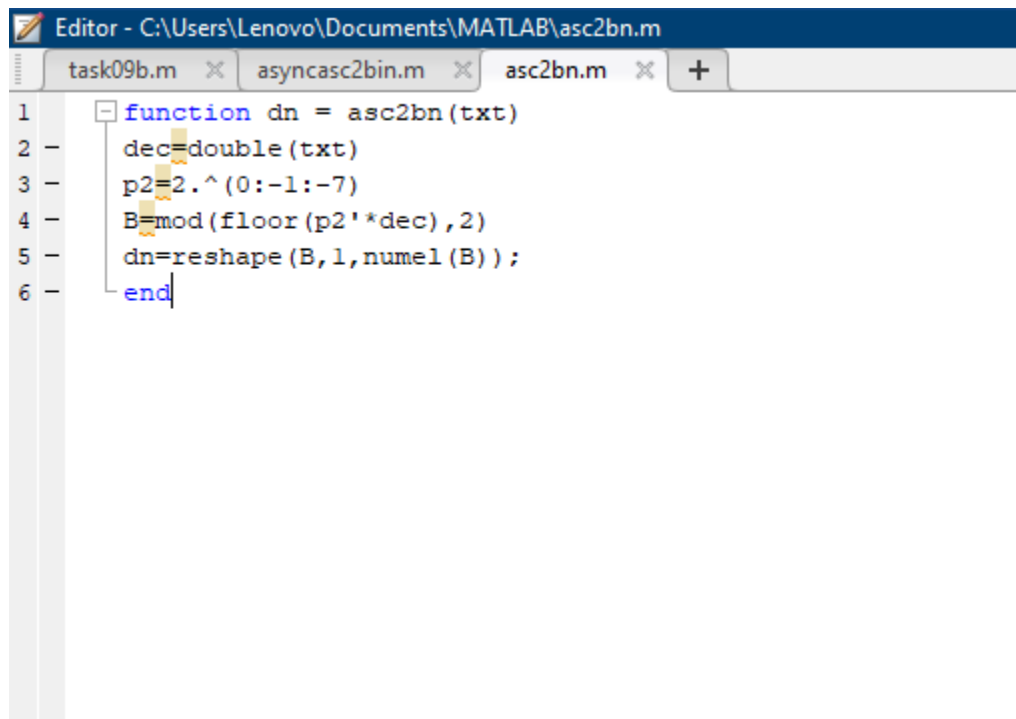
Title: Message Passing and Receiving Using Modulator (part 1: Transmitter Side)

Performance Task for Lab Report: (your ID = AB-CDEFG-H)

My ID= 17-34465-2

(a) Generate a function which will convert a text message into binary bit sequence.

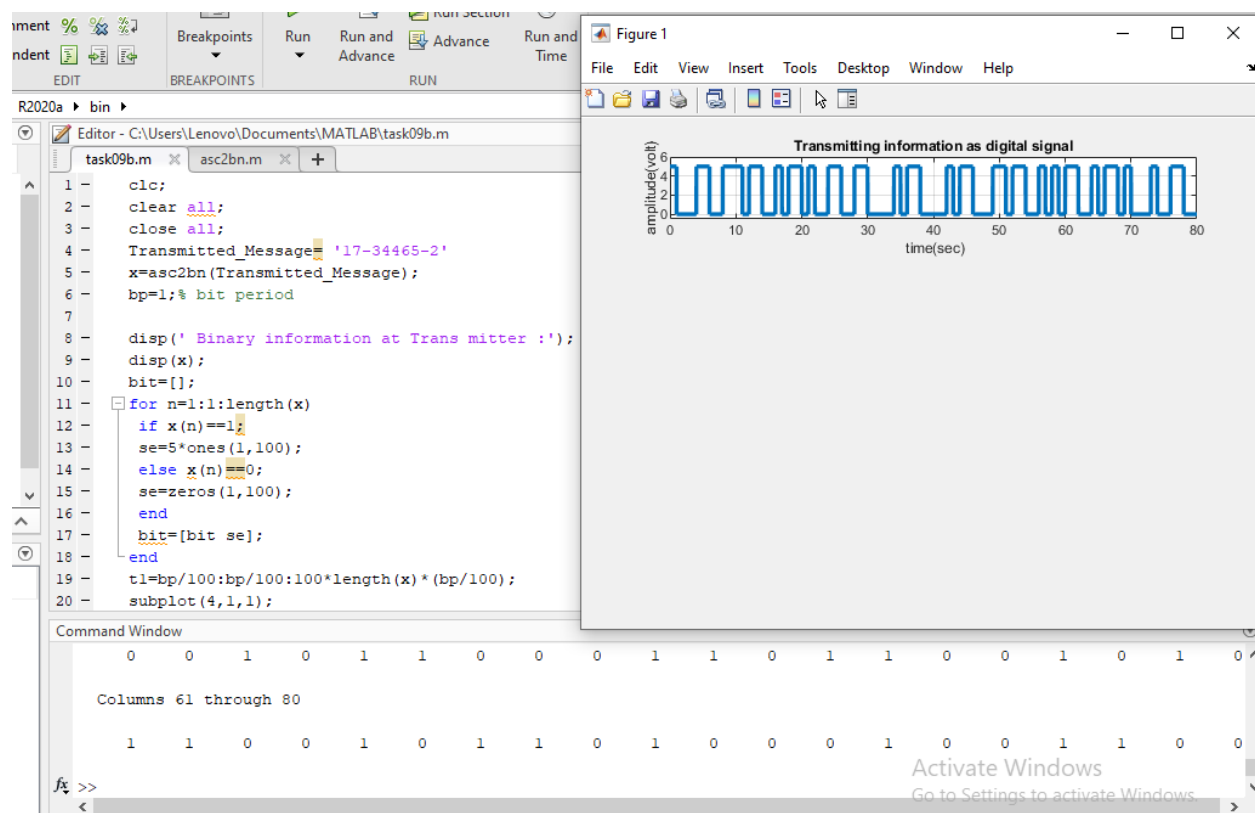
Ans:

The image shows a MATLAB Editor window with the title bar "Editor - C:\Users\Lenovo\Documents\MATLAB\asc2bn.m". There are three tabs open: "task09b.m", "asynasc2bin.m", and "asc2bn.m". The "asc2bn.m" tab is active, showing the following code:

```
1 function dn = asc2bn(txt)
2     dec=double(txt)
3     p2=2.^(-1:-7)
4     B=mod(floor(p2'*dec),2)
5     dn=reshape(B,1,numel(B));
6     end
```

(b) Generate the digital signal where the bit duration is 1 sec.

Ans:



(c) Formulate the code in (a), so that it can perform asynchronous transmission (10 bits).

Ans:

