**Lab Assignment**

**Use your: ID = AB-CDEFG-H**

1. Convert the below analog signal to digital data:

signal = a1\*sin(2\*pi\*f1\*t) + a2\*cos(2\*pi\*f2\*t) + a3\*cos(2\*pi\*f3\*t)

[a1 = B + 1, a2 = C + 3, a3 = D + 2, f1 = E + 5, f2 = F + 7, f3 = G + 1]

1. Convert the obtained digital data from question 1to the following types of digital signal
   1. Unipolar NRZ
   2. Differential Manchester