
```

clc
clear all
close all
%Sampling of Analog wave and converting to digital
%2017KUCP1017
%Tanuj Mehta
%File Name: tanuj_bitstream.m
x=0:0.01:10;
subplot(3,1,1)
plot(x,10.*sin(x))
y=0:0.3:10;
hold on
stem(y,10.*sin(y))
subplot(3,1,2)
z=10+round(10.*sin(y));
stem(y,z)
q=de2bi(z);
q=fliplr(q);
q=q';
x=q(:);
display('bitstream generated is:');
s=x'

```

bitstream generated is:

s =

Columns 1 through 13

0	1	0	1	0	0	1	1	0	1	1
0	0									

Columns 14 through 26

0	0	1	0	0	1	0	1	0	0	1
1	1									

Columns 27 through 39

0	1	0	0	1	0	1	0	0	1	0
0	1									

Columns 40 through 52

1	1	0	0	0	1	0	1	1	1	0
0	1									

Columns 53 through 65

0	1	1	0	1	0	0	0	0	0	1
1	0									

Columns 66 through 78

	0	0	0	1	1	0	0	0	0	1	0
0	0										

Columns 79 through 91

	0	0	0	0	0	0	0	0	0	0	0
1	0										

Columns 92 through 104

	0	0	1	0	0	0	1	0	0	0	0
1	1										

Columns 105 through 117

	1	0	1	0	1	0	0	1	1	0	1
1	0										

Columns 118 through 130

	0	0	0	1	0	0	1	0	1	0	0
1	1										

Columns 131 through 143

	1	0	1	0	0	1	0	1	0	0	1
0	0										

Columns 144 through 156

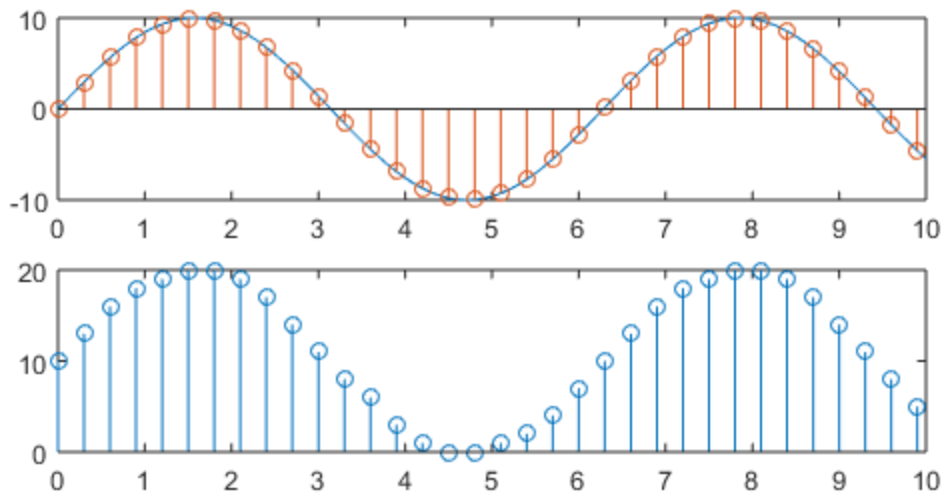
	1	1	1	0	0	0	1	0	1	1	1
0	0										

Columns 157 through 169

	1	0	1	1	0	1	0	0	0	0	0
1	0										

Column 170

1



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