

```
N=(8000/100);  
fs=(1/8000);  
  
matriz=zeros(N,4);  
  
i=0;  
  
while i <= N-1  
    matriz(i+1,1)=2+2*cos(2*pi*100*fs*i);  
    matriz(i+1,2)= round((matriz(i+1,1)*((2^8)-1))/5);  
    matriz(i+1,3)= round((matriz(i+1,1)*((2^10)-1))/5);  
    matriz(i+1,4)= round((matriz(i+1,1)*((2^12)-1))/5);  
    i=i+1;  
end
```

n	xm(nts)	A/D 8bits	A/D 10bits	A/D 12bits
0	4	204	818	3276
1	3.993834667	204	817	3271
2	3.975376681	203	813	3256
3	3.944739841	201	807	3231
4	3.902113033	199	798	3196
5	3.847759065	196	787	3151
6	3.782013048	193	774	3097
7	3.705280329	189	758	3035
8	3.618033989	185	740	2963
9	3.520811931	180	720	2884
10	3.414213562	174	699	2796
11	3.298896097	168	675	2702
12	3.175570505	162	650	2601
13	3.044997129	155	623	2494
14	2.907980999	148	595	2382
15	2.765366865	141	566	2265
16	2.618033989	134	536	2144
17	2.466890728	126	505	2020
18	2.31286893	118	473	1894
19	2.156918191	110	441	1767
20	2	102	409	1638
21	1.843081809	94	377	1509
22	1.68713107	86	345	1382
23	1.533109272	78	314	1256
24	1.381966011	70	283	1132
25	1.234633135	63	253	1011
26	1.092019001	56	223	894
27	0.955002871	49	195	782
28	0.824429495	42	169	675
29	0.701103903	36	143	574
30	0.585786438	30	120	480
31	0.479188069	24	98	392
32	0.381966011	19	78	313
33	0.294719671	15	60	241
34	0.217986952	11	45	179
35	0.152240935	8	31	125
36	0.097886967	5	20	80
37	0.055260159	3	11	45
38	0.024623319	1	5	20
39	0.006165333	0	1	5
40	0	0	0	0
41	0.006165333	0	1	5
42	0.024623319	1	5	20
43	0.055260159	3	11	45
44	0.097886967	5	20	80
45	0.152240935	8	31	125
46	0.217986952	11	45	179
47	0.294719671	15	60	241
48	0.381966011	19	78	313
49	0.479188069	24	98	392
50	0.585786438	30	120	480
51	0.701103903	36	143	574
52	0.824429495	42	169	675
53	0.955002871	49	195	782
54	1.092019001	56	223	894
55	1.234633135	63	253	1011
56	1.381966011	70	283	1132
57	1.533109272	78	314	1256
58	1.68713107	86	345	1382
59	1.843081809	94	377	1509
60	2	102	409	1638
61	2.156918191	110	441	1767
62	2.31286893	118	473	1894
63	2.466890728	126	505	2020
64	2.618033989	134	536	2144
65	2.765366865	141	566	2265
66	2.907980999	148	595	2382
67	3.044997129	155	623	2494
68	3.175570505	162	650	2601
69	3.298896097	168	675	2702
70	3.414213562	174	699	2796
71	3.520811931	180	720	2884
72	3.618033989	185	740	2963
73	3.705280329	189	758	3035
74	3.782013048	193	774	3097
75	3.847759065	196	787	3151
76	3.902113033	199	798	3196
77	3.944739841	201	807	3231
78	3.975376681	203	813	3256
79	3.993834667	204	817	3271