

---

```
clc
clear all
close all
% Convert Binary to Gray Code
% 2017KUCP1016
% Name Apurv Jain

n = round(rand(1,4)) % To generate a random four bit binary number
bin = n;
gray = zeros(1,4);
gray(1,1) = bin(1,1);
for i=2:length(bin)
    gray(1,i)= xor(bin(1,i-1),bin(1,i));
end
gray % Gray Code of the Original Binary Number
```

*n =*

*1      0      1      0*

*gray =*

*1      1      1      1*

*Published with MATLAB® R2015a*