
```
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

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