```
clc
clear all
close all
%Convert Binary to Gray Code
%2017KUCP1017
%Tanuj Mehta
% File Name: tanuj_bi2gray.m

a=round(rand(1,4))
ones=sum(a);
if rem(ones,2)==0
display('Number has even parity');
else
display('Number has odd parity');
end
gray(1)=a(1);
for i=2:1:length(a)
aa=xor(a(i),a(i-1));
gray(i)=aa;
end
gray

%OUTPUT---------------------------------------


a =

     1     1     0     1

Number has odd parity

gray =

     1     0     1     1
```

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