```
clc
clear all
close all
% Coversion of Decimal to Binary
% 2017KUCP1016
% Name Apurv Jain
% n = input('Enter a number: ');
n = 10;
num = n;
if (n==0)
    bits=1;
else
    bits = log2(n);
    if (rem(bits,1)==0)
       bits = ceil(bits) +1;
     else
       bits = ceil(bits);
     end
end
display ('Bits Required ');
display (bits);
bin = zeros(1,bits);
for i = bits:-1:1
    bin(i) = rem(n,2);
   n = floor(n/2);
end
display ('Binary Equivalent of ');
display (num);
display (' is ');
display (bin);
Bits Required
bits =
     4
Binary Equivalent of
num =
    10
 is
bin =
     1
         0 1 0
```

