
```
clc
clear all
close all

% decimal to binary conversion
%2017KUCP1017
%Tanuj Mehta
% File Name: tanuj_dec2bin.m

num=input('Enter a Number to find number of bits used and show its binary code\n');
num=16;

bits=log2(num);

if(rem(bits,1)==0)
    bits=ceil(bits)+1
else
    bits=ceil(bits)
end

bin1=zeros(1,bits);

for i=bits:-1:1
    bin1(1,i)=rem(num,2);
    num=floor(num/2);
end
bin1

%OUTPUT-----

bits =

    5

bin1 =

    1    0    0    0    0
```

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