```
// example 1.3//
clc
//clears the command window//
clear
//clears all the variables//
q =0;
b =0;
s =0;
// a=input (Enter the decimal no to be converted to its binary equivalent
:) ;
//accepting the decimal input from user//
a =13.375;
d =modulo (a ,1) ;
//separating the decimal part and the integer part//
a = floor(a);
//removing the decimal part //
while (a>0)
//taking integer part into a matrix and convert to equivalent binary//
x=modulo (a ,2) ;
b=b +(10^q)*x ;
a = a/2;
a = floor(a) ;
q = q+1;
end
for i =1:10
// For values after decimal point converting to binary //
d = d *2;
q = floor ( d ) ;
s = s + q /(10^ i ) ;
if d >=1 then
d =d -1;
end
end
k=b+s;
disp('The binary equivalent of the give decimal number is');
disp (k);
//displaying the final result//
```