```
//example 2.6(b)//
clc
//clears the command window//
//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 = 10.625;
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 = \underline{modulo}(a, 2);
b = b + (10^{\circ} 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^{\circ} i);
     if d >=1 then
             d = d -1;
     end
end
k=b+s;
disp('The binary equivalent of the given decimal number is =');
disp(k);
//displaying the final result .
```

Result=(1010.101)<sub>2</sub>