**DIGITAL SIGNAL PROCESSING LAB EXPT.5**

**NIKHIL ROUT**

**22BEC1020**

**AIM: LINEAR CONVOLUTION IN CODE COMPOSER STUDIO**

**C CODE**

#include <stdio.h>  
#include <math.h>  
  
int x[7] = {1, 2, 3, 4};  
int h[7] = {1, 0, 2, 0};  
int y[7];  
  
int main(void) {  
  
int i, j, k;  
  
for(i = 0; i<7; ++i){  
y[i] = 0;  
for(j = 0; j<=i; ++j){  
y[i] += (x[j]\*h[i-j]);  
}  
}  
  
for(i = 0; i < 7; ++i){  
k = y[i];  
printf("\t %d", k);  
}  
  
return 0;





