

```

#include<stdio.h>
#include<conio.h>
#define pf printf
#define sf scanf
void main()
{
int a,sum,b,i,j,k,x[10],y[20],h[10],n;
clrscr();
pf("\nenter the length of 1st signal");
sf("%d",&a);
pf("\nenter the length of 2nd signal");
sf("%d",&b);
pf("\nenter the value of 1st signal");
for(i=0;i<a;i++)
{
sf("%d",&x[i]);
}
pf("\n enter the values of 2nd signal");
for(i=0;i<b;i++)
{
sf("%d",&h[i]);
}
for(i=a;i<(a+b-1);i++) \\ Length of convolved signal n=a+b-1
{
h[i]=0;
}
for(i=a-1;i>0;i--)
{
x[-i]=x[i];
x[i]=0;
}
for(i=a;i<(a+b-1);i++)
{
x[i]=0;
x[-i]=0;
}
pf("\n\n\n");
sum=0;
pf("\n The convolved signal is");
for(n=0;n<(a+b-1);n++)
{
for(k=0;k<(a+b-1);k++)
{

sum=sum+h[k]*x[-(n-k)];
}
y[n]=sum;

pf("\n%d",y[n]);
sum=0;
}
getch();
}

```