```
clc;
close all;
clear all;

x = [1,2,3,4];
h = [2,1,2,1];

M = length(x);
N = length(h);
H = zeros(N,N);

x2 = [0,0,0,0,0,0,0,0,0,0];
h2 = [2,1,2,1,0,0,0,0,0,0];

for i=1:10
    x2(i) = 0.5.^(i-1);
end

M2 = length(x2);
N2 = length(h2);
H2 = zeros(N,N);


for n=1:N
    for i=1:N
        index = mod((n-i),N)+1;
        H(n,i) = h(index);
    end
end
Y = cconv(x,h,4);
Y2 = cconv(x2,h2,10);

%display(H)
display(Y)

display(Y2);
```

```
Y =

    14    16    14    16


Y2 =

  Columns 1 through 7

    2.0176    2.0078    3.0020    2.5000    1.2500    0.6250    0.3125

  Columns 8 through 10
```

```
    0.1563    0.0781    0.0391
```

Published with MATLAB® R2023b