Output using Manual FIR Computation
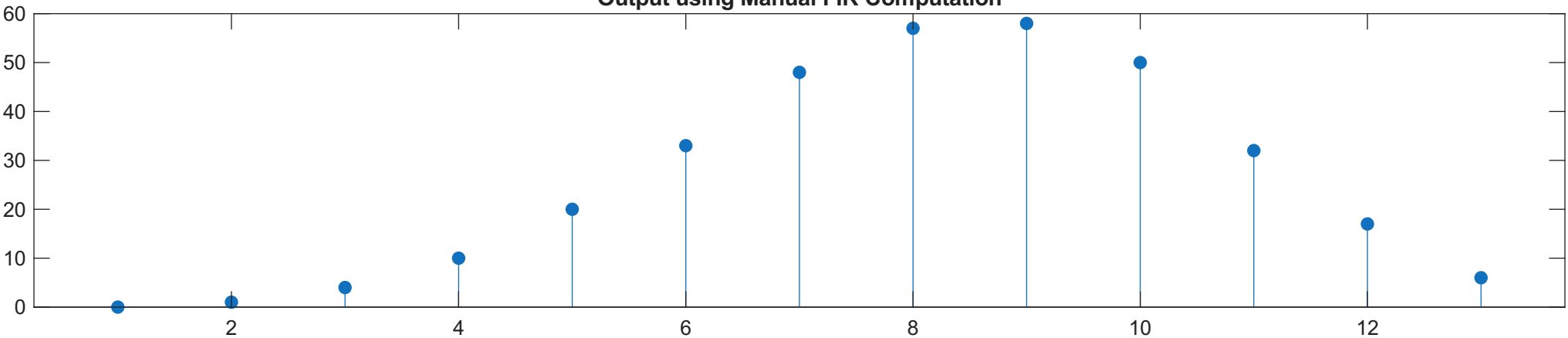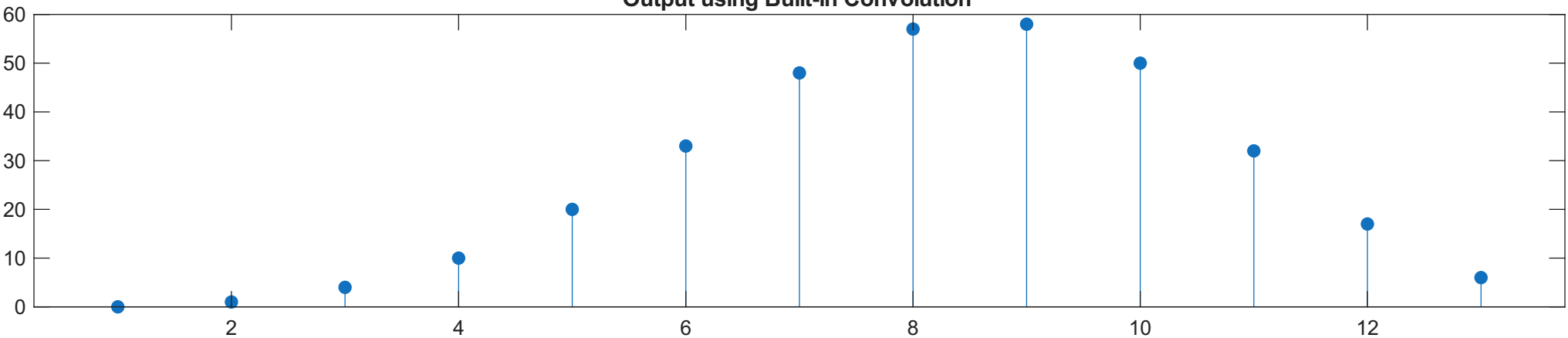
Output using Built-in Convolution

```
Input signal x(n):
     0     1     2     3     4     5     6

Impulse response h(n):
     1     2     3     4     3     2     1

Shifted versions of x(n):
     0     1     2     3     4     5     6     0     0     0     0     0     0
     0     0     1     2     3     4     5     6     0     0     0     0     0
     0     0     0     1     2     3     4     5     6     0     0     0     0
     0     0     0     0     1     2     3     4     5     6     0     0     0
     0     0     0     0     0     1     2     3     4     5     6     0     0
     0     0     0     0     0     0     1     2     3     4     5     6     0
     0     0     0     0     0     0     0     1     2     3     4     5     6

Output using manual FIR computation:
     0     1     4    10    20    33    48    57    58    50    32    17     6

Output using MATLAB conv():
     0     1     4    10    20    33    48    57    58    50    32    17     6
```