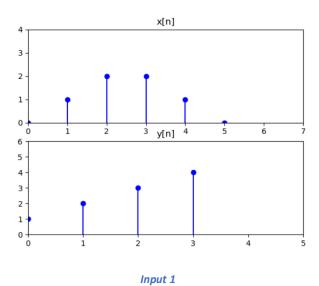
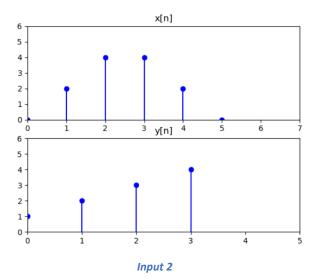
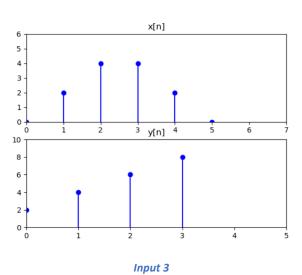
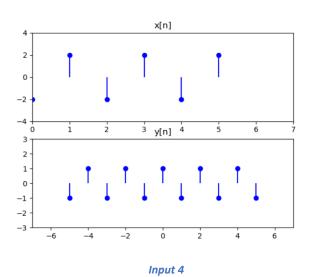
FunctionA Outputs

I used the sys.argv[] for reading the given inputs and plotted the data with matplotlib functions.



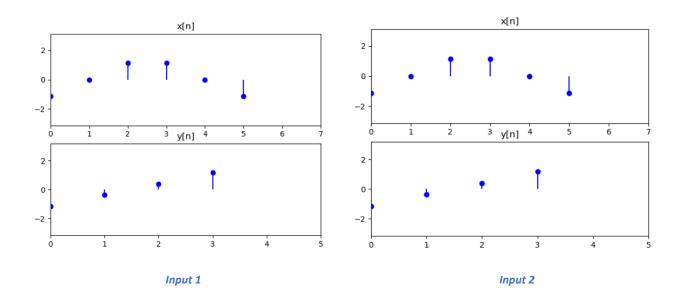


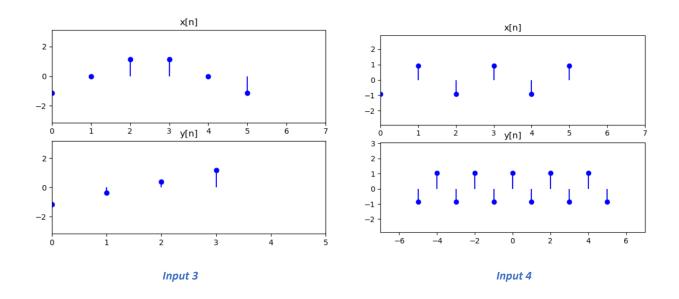




FunctionB Outputs

I used the sys.argv[] for reading the given inputs and i found the normalized form of the signals. Then i plotted the signal with using matplotlib functions.





FunctionC Outputs

I wrote the function of calculating the convolution of signals.

Input 1

C:\Users\SEDA\Desktop>python functionC.py 0 5 0 3 0 1 2 2 1 0 1 2 3 4 [0, 1, 4, 9, 15, 16, 11, 4, 0]

Input 2

C:\Users\SEDA\Desktop>python functionC.py 0 5 0 3 0 2 4 4 2 0 1 2 3 4
[0, 2, 8, 18, 30, 32, 22, 8, 0]

Input 3

C:\Users\SEDA\Desktop>python functionC.py 0 5 0 3 0 2 4 4 2 0 2 4 6 8 [0, 4, 16, 36, 60, 64, 44, 16, 0]

Input 4

FunctionD Outputs

I used the sys.argv[] for reading the given inputs and i found the normalized form of the signals. Then i wrote the function of calculating the convolution of signals and i calculatted the convolution of standard normalized forms of the signals

Input 1

```
C:\Users\SEDA\Desktop>python functionD.py 0 5 0 3 0 1 2 2 1 0 1 2 3 4
[1.299038105676658, 0.43301270189221935, -1.7320508075688774, -3.0310889132455356, 0.0, 3.0310889132455356
1.7320508075688774, -0.43301270189221935, -1.299038105676658]
```

Input 2

```
C:\Users\SEDA\Desktop>python functionD.py 0 5 0 3 0 2 4 4 2 0 1 2 3 4
[1.299038105676658, 0.43301270189221935, -1.7320508075688774, -3.0310889132455356, 0.0, 3.0310889132455356,
1.7320508075688774, -0.43301270189221935, -1.299038105676658]
```

Input 3

```
C:\Users\SEDA\Desktop>python functionD.py 0 5 0 3 0 2 4 4 2 0 2 4 6 8 [1.299038105676658, 0.43301270189221935, -1.7320508075688774, -3.0310889132455356, 0.0, 3.0310889132455356, 1.7320508075688774, -0.43301270189221935, -1.299038105676658]
```

Input 4