

1.Semester (Fall 2020),Course code: CSE-432 ,Course Tittle: Digital Signal Processing Lab, Name: Kutub Uddin,Id:170103020047

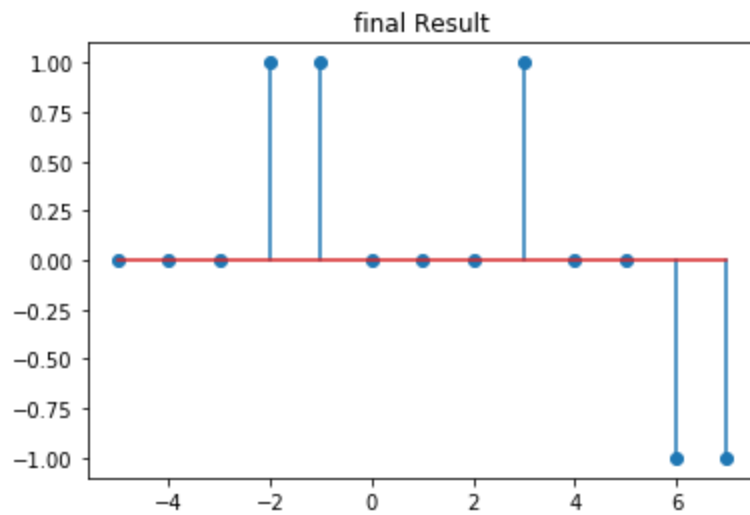
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2.I have answered task number 3.

3. Test case 1:

- 1 test case
- 2 signal part
- 5 lower bound
- 5 upper bound
- 2 two component
- 1 no amplitude
- 2 unit step signal
- 1 shifting has
- 3 shifting amount
- 2 no mirroring
- 2 no downsampling
- 1 Add which is add first component
- 1 no amplitude
- 2 unit step signal
- 1 has shifting
- 2 shifting amount
- 2 no mirroring
- 2 no downsampling
- 2 2nd component will be subtract from 1st component
- 3 lower bound
- 7 upper bound
- 1 2nd part component
- 1 no amplitude
- 2 unit step signal
- 2 no shifting
- 2 no mirroring
- 2 no daownsampling

[-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7] [0.0, 0.0, 0.0, 1.0, 1.0, 0.0, 0.0, 0.0, 1.0, 0.0, 0.0, -1, -1]

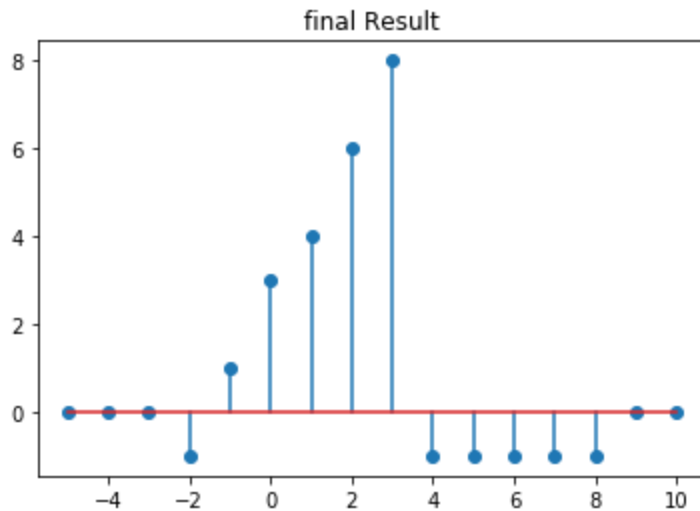


Test case 2:

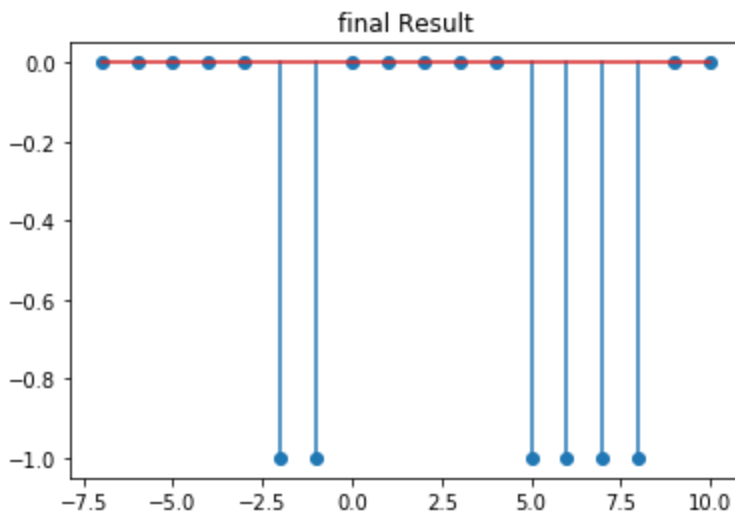
- 2 test case
- 2 signal part
- 5 lower bound
- 10 upper bound
- 2 two component
- 1 no amplitude
- 3 Ramp signal
- 1 shifting has
- 3 shifting amount
- 2 no mirroring
- 1 downsampling has
- 2 downsampling amount
- 2 subtract from 1st component
- 1 no amplitude
- 2 unit step signal
- 1 shifting has
- 2 shifting amount
- 2 no mirroring
- 2 no downsampling
- 1 second part will be added
- 2 lower bound
- 1 upper bound
- 1 2nd part has single component

1 no amplitude
 2 unit step signal
 1 shifting has
 -1 shifting amount
 2 no mirroring
 2 no downsampling
 2 two signal part
 -7 lower bound
 10 upper bound
 2 two component
 1 no amplitude
 2 unit step signal
 1 shifting has
 -1 shifting amount
 2 no mirroring
 1 downsampling has
 2 downsampling amount
 2 subtract from 1st component
 1 no amplitude
 2 unit step signal
 1 shifting has
 -2 shifting amount
 2 no mirroring
 2 no downsampling
 2 subtract
 -2 lower bound
 1 upper bound
 1 2nd part has single component
 1 no amplitude
 3 ramp signal
 2 no shifting
 2 no mirroring
 1 downsampling has
 3 downsampling amount

[-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10] [0.0, 0.0, 0.0, -1.0, 1.0, 3.0,
 4.0, 6.0, 8.0, -1.0, -1.0, -1.0, -1.0, -1.0, 0.0, 0.0]



```
[ -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10] [0.0, 0.0, 0.0, 0.0, 0.0,
-1.0, -1.0, 0.0, 0.0, 0.0, 0.0, 0.0, -1.0, -1.0, -1.0, -1.0, 0.0, 0.0]
```



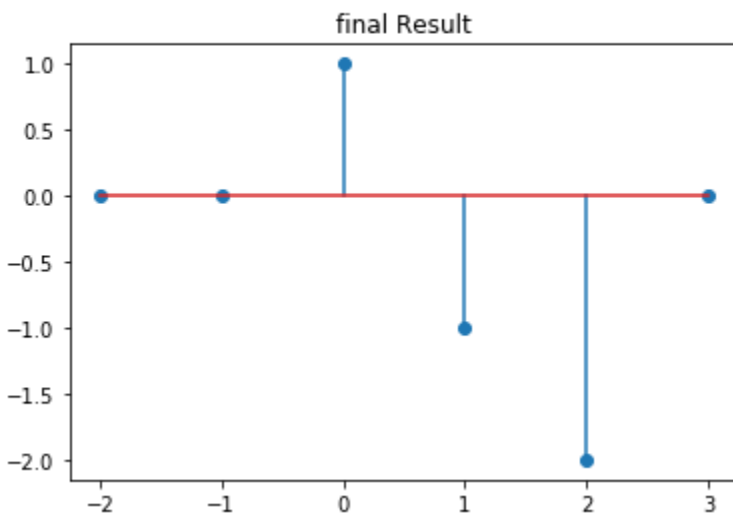
In [21]:

Test case 3:

- 1 test case
- 2 signal part
- 2 lower bound
- 3 upper bound
- 2 two component
- 1 no amplitude
- 1 impulse signal
- 2 no shifting has
- 2 no mirroring

- 2 no downsampling
- 2 subtract from first component
- 1 no amplitude
- 3 ramp signal
- 1 has shifting
- 1 shifting amount
- 2 no mirroring
- 2 no downsampling
- 1 add with 1st component
- 1 lower bound
- 2 upper bound
- 1 2nd part component
- 1 no amplitude
- 2 unit step signal
- 2 no shifting
- 2 no mirroring
- 2 no downsampling

`[-2, -1, 0, 1, 2, 3] [0.0, 0.0, 1.0, -1.0, -2.0, 0.0]`



4.Yes

5.Yes

6.None

7.How to take input from text file? I have just watched it on youtube and also watched class lecture video