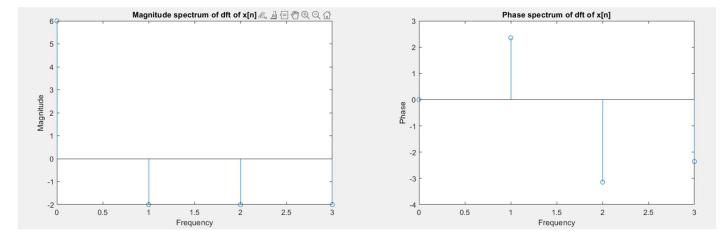
```
the input sequence : [0 1 2 3]
N point DFT: 4
Transformation Matrix for dft
  1.0000 + 0.0000i
                     1.0000 + 0.0000i 1.0000 + 0.0000i
                                                           1.0000 + 0.0000i
  1.0000 + 0.0000i
                     0.0000 - 1.0000i -1.0000 - 0.0000i -0.0000 + 1.0000i
  1.0000 + 0.0000i -1.0000 - 0.0000i
                                        1.0000 + 0.0000i -1.0000 - 0.0000i
  1.0000 + 0.0000i -0.0000 + 1.0000i -1.0000 - 0.0000i
                                                         0.0000 - 1.0000i
dft of x[n]
  6.0000 + 0.0000i
 -2.0000 + 2.0000i
 -2.0000 - 0.0000i
 -2.0000 - 2.0000i
```



2)

enter the input sequence : [6.0000 + 0.0000i -2.0000 + 2.0000i -2.0000 - 0.0000i -2.0000 - 2.0000i] Transformation Matrix for idft

x(n) =

0.0000 + 0.0000i 1.0000 + 0.0000i 2.0000 - 0.0000i 3.0000 - 0.0000i

