

```

>> untitled
Enter the length of the sequence8
Enter the length of DFT=8
Enter the sequence[1,2,3,4,4,3,2,1]
Magnitude of DFT
Columns 1 through 6

    20.0000    6.3086         0    0.4483         0    0.4483

Columns 7 through 8

         0    6.3086

Phase of DFT
Columns 1 through 6

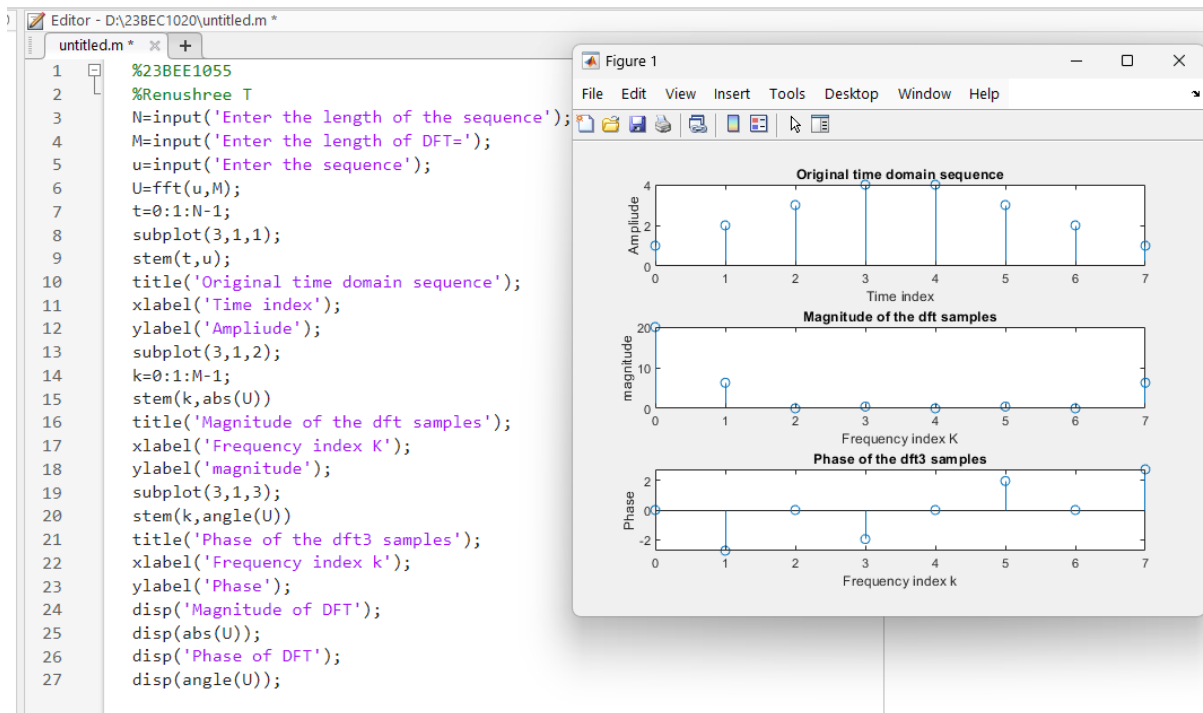
         0   -2.7489         0   -1.9635         0    1.9635

Columns 7 through 8

         0    2.7489

```

*fx* >>



```

>> untitled
Enter the length of the sequence8
Enter the length of DFT=8
Enter the sequence[1,2,3,4,4,3,2,1]
Magnitude of DFT
Columns 1 through 6

    20.0000    6.3086         0    0.4483         0    0.4483

Columns 7 through 8

         0    6.3086

Phase of DFT
Columns 1 through 6

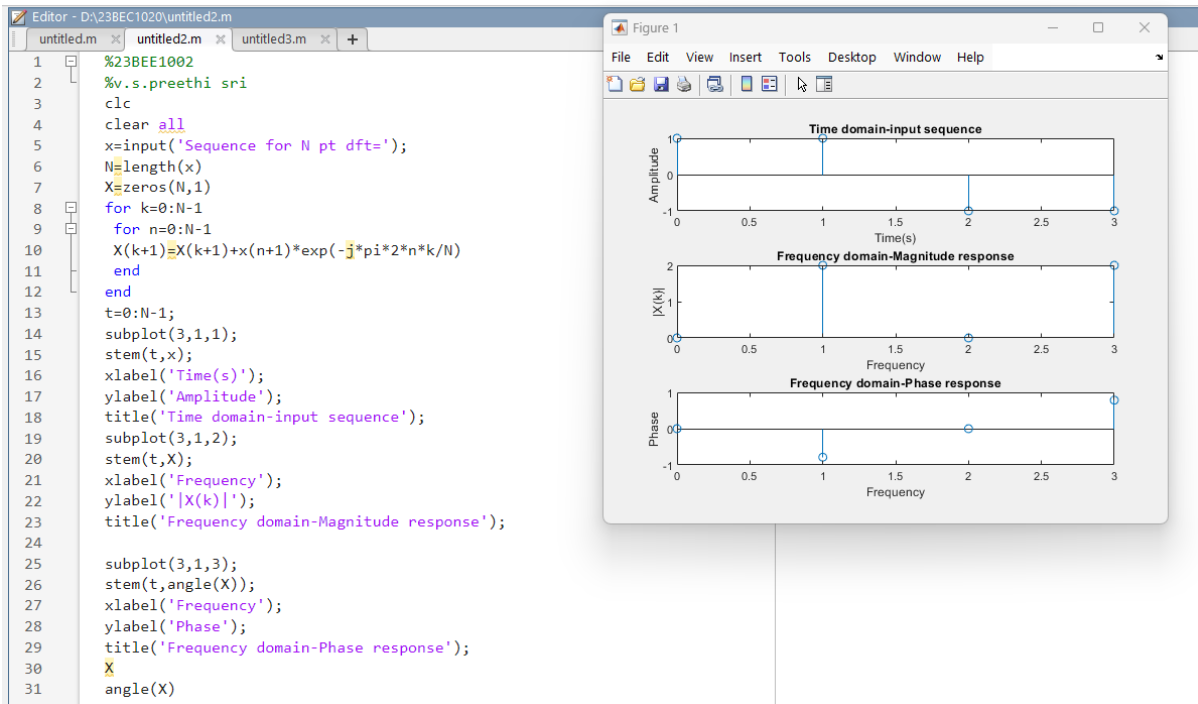
         0   -2.7489         0   -1.9635         0    1.9635

Columns 7 through 8

         0    2.7489

fx >>

```



X =

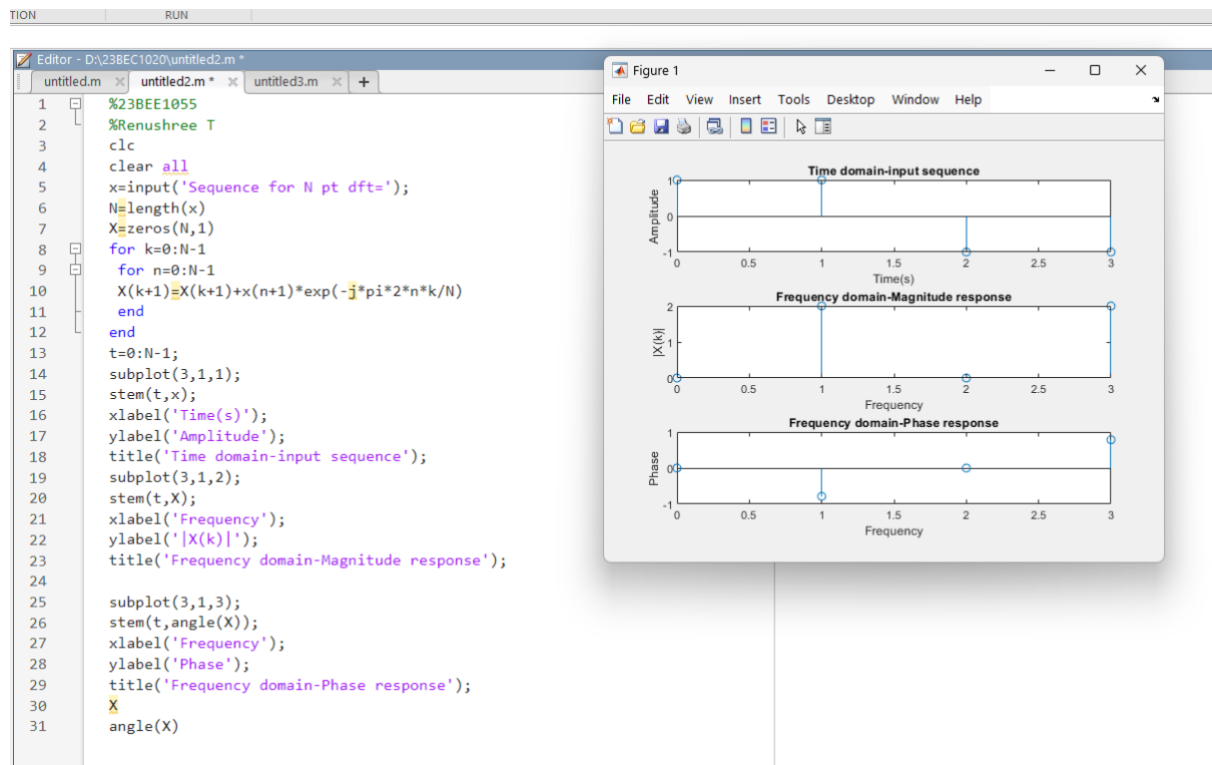
```

0.0000 + 0.0000i
2.0000 - 2.0000i
0.0000 + 0.0000i
2.0000 + 2.0000i
  
```

ans =

```

0
-0.7854
0
0.7854
  
```



X =

```

0.0000 + 0.0000i
2.0000 - 2.0000i
0.0000 + 0.0000i
2.0000 + 2.0000i

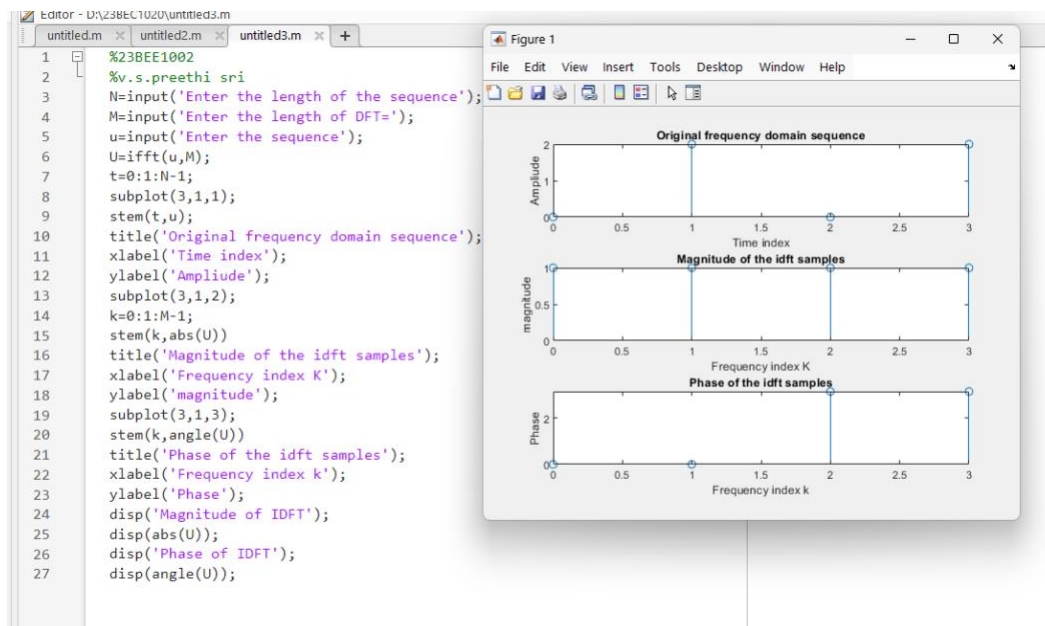
```

ans =

```

0
-0.7854
0
0.7854

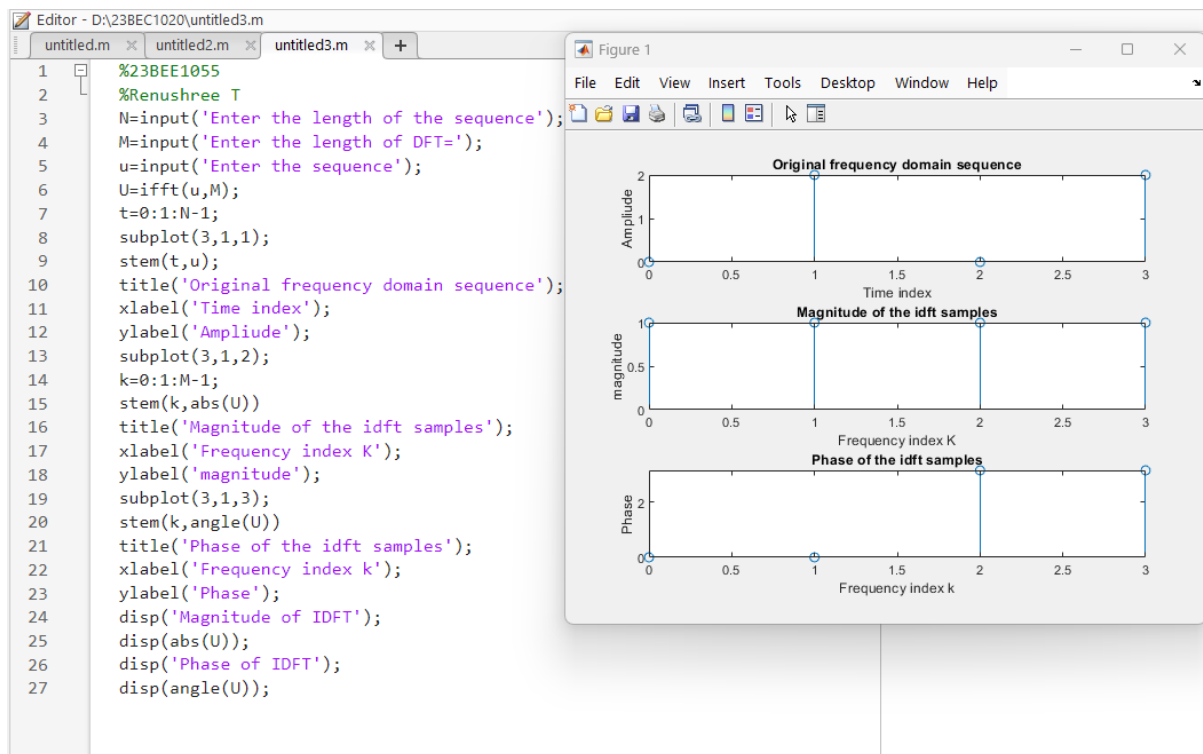
```



```

Enter the length of the sequence4
Enter the length of DFT=4
Enter the sequence[0,2-2i,0,2+2i]
Warning: Using only the real component of complex data.
> In matlab.graphics.chart.internal.getRealData (line 63)
In stem (line 96)
In untitled3 (line 7)
Magnitude of IDFT
    1    1    1    1

Phase of IDFT
    0         0    3.1416    3.1416
  
```



```

Enter the length of the sequence4
Enter the length of DFT=4
Enter the sequence[0,2-2i,0,2+2i]
Warning: Using only the real component of complex data.
> In matlab.graphics.chart.internal.getRealData (line 63)
In stem (line 96)
In untitled3 (line 7)
Magnitude of IDFT
    1    1    1    1

Phase of IDFT
    0         0    3.1416    3.1416

```