

Digital Signal Processing

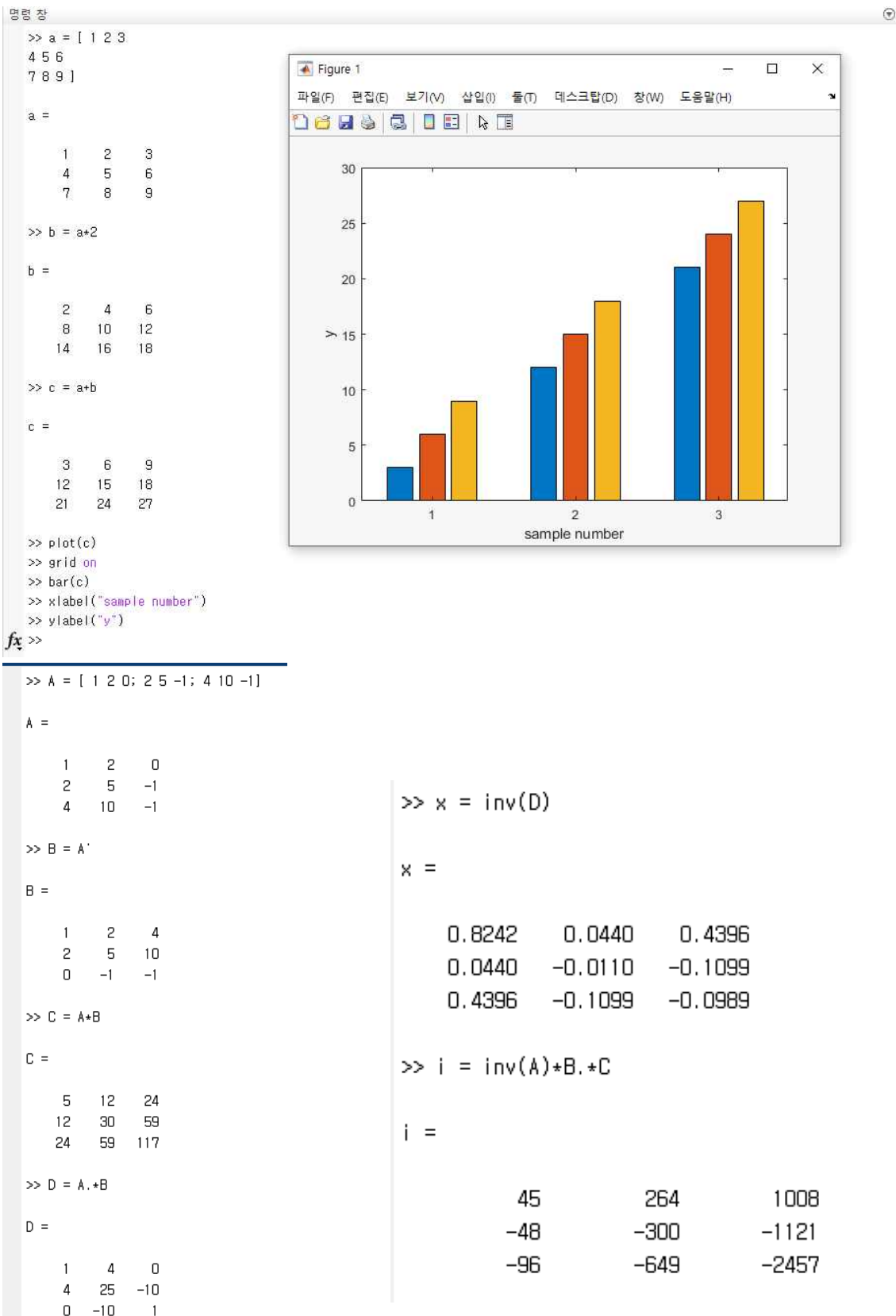
Report 2 MATLAB



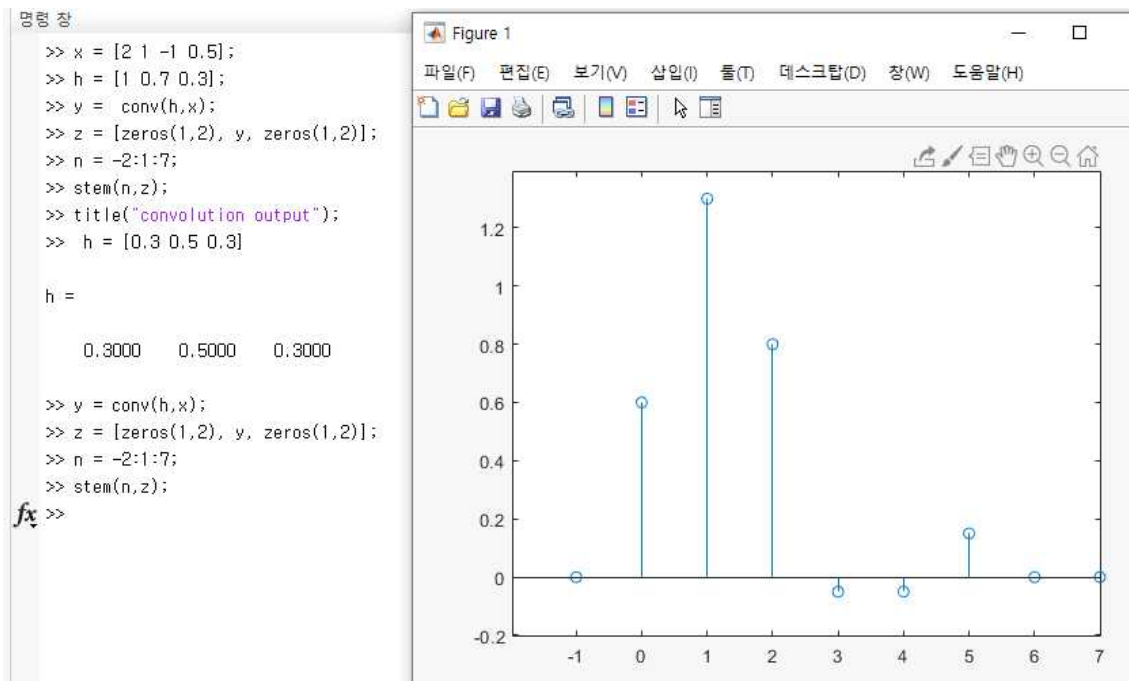
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이름 : 박동학

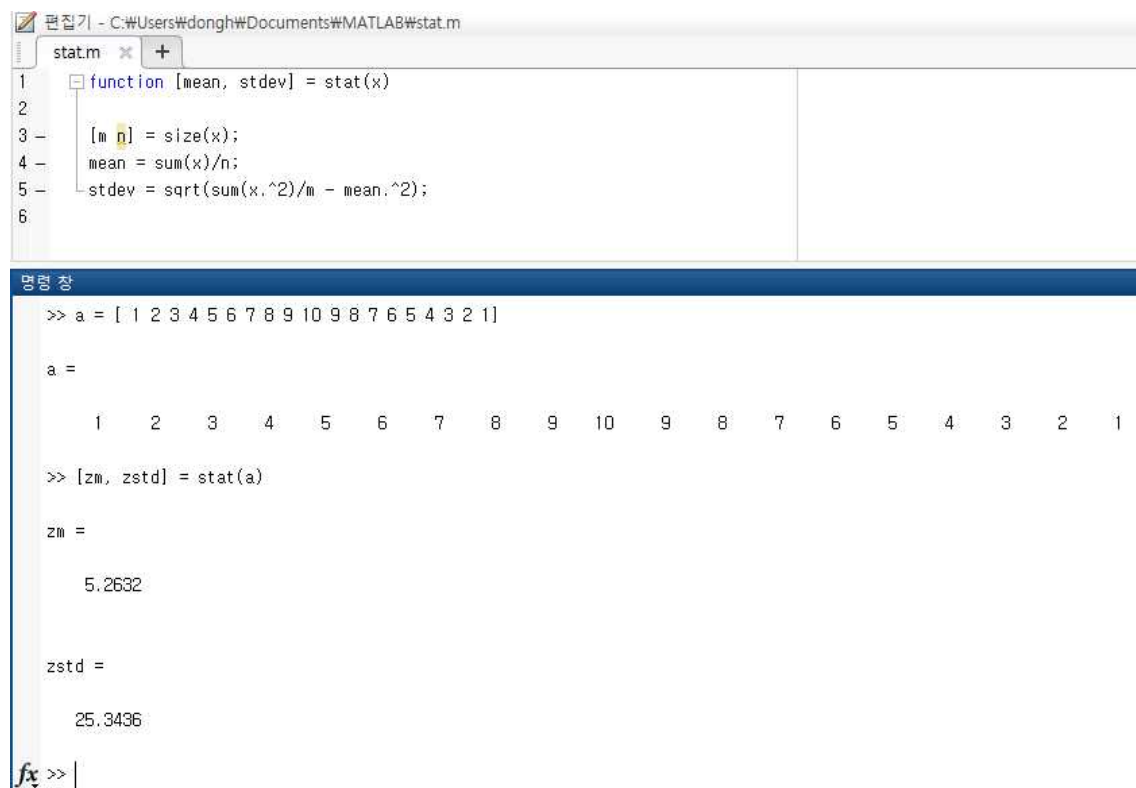
1. 행렬을 선언, 연산 후 plot()



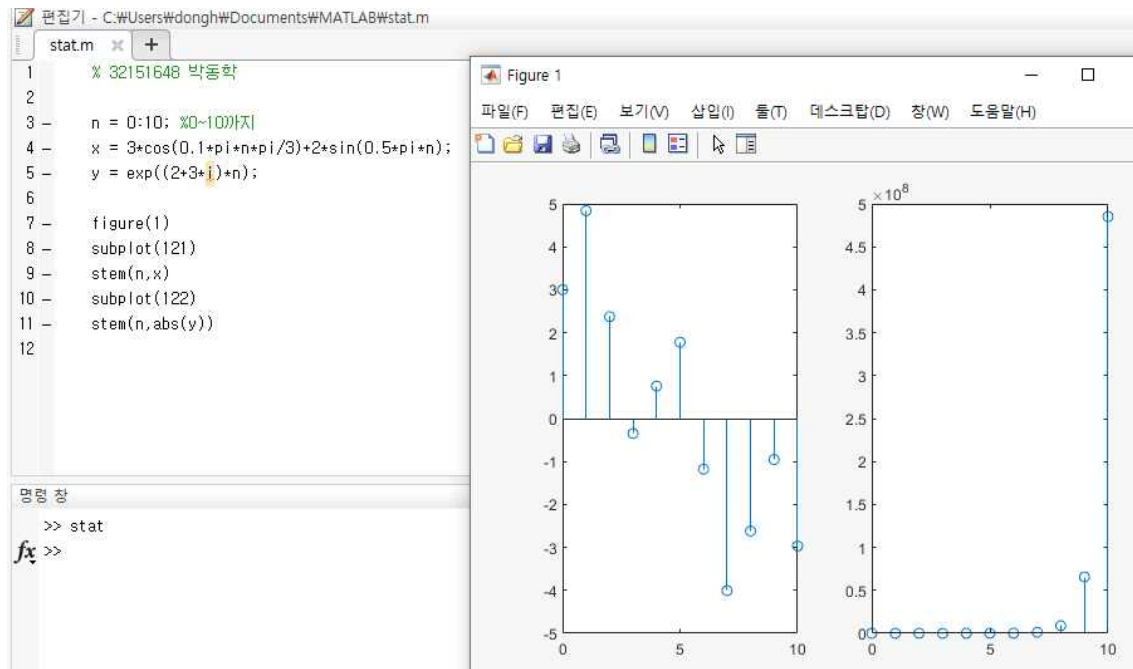
2. Convolution 연산 후 stem()



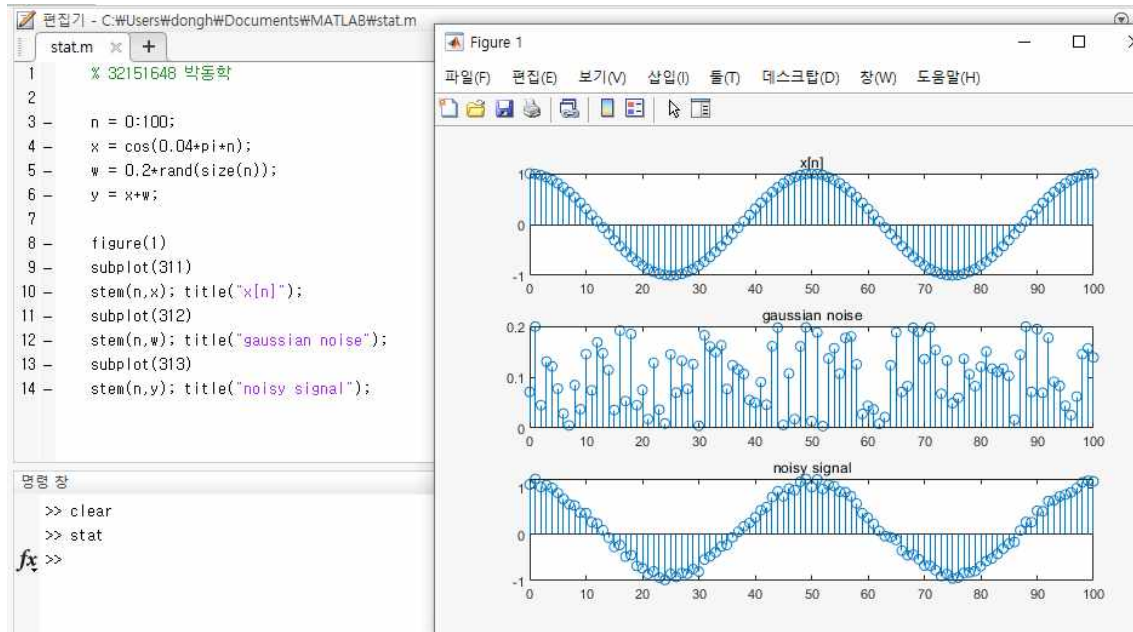
3. 프로그램을 .m 파일로 저장하고 이를 실행



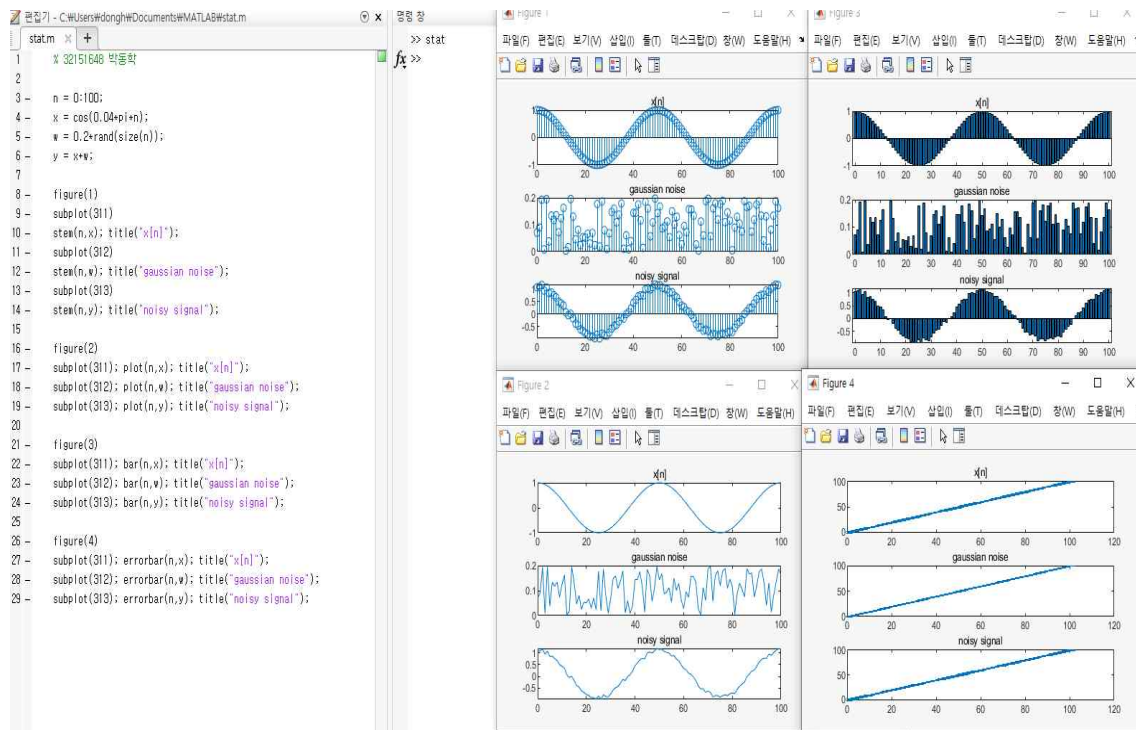
4. 삼각 함수, subplot



5. Gaussian Noise, subplot



5. Gaussian Noise (다양한 형태로 그려보기)



6. 시간 측정

% 32151648 박동학

```
x = [2 1 -1 0.5 1 2 4 5];
h = [1 0.7 0.3];
```

```
tic
y = conv(h,x);
toc
```

```
t = cputime
```

```
z = conv(h,x);
```

```
cputime-t
```

경과 시간은 0.000187초입니다.

```
t =
```

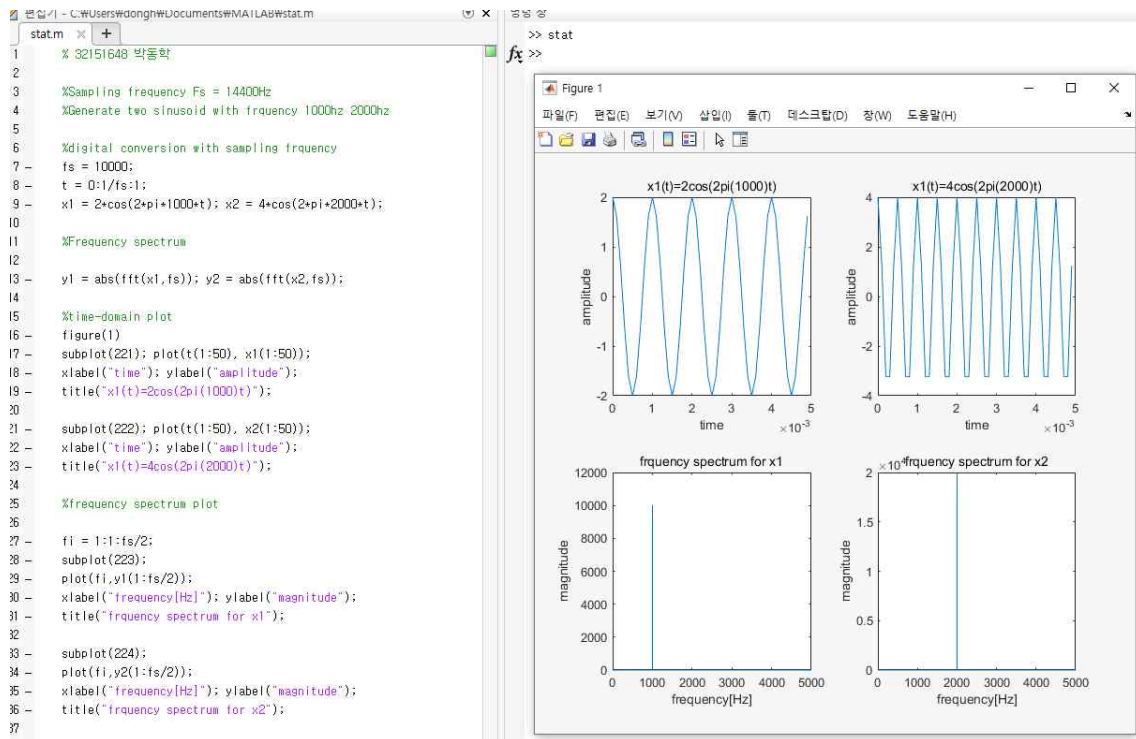
```
151.7188
```

```
ans =
```

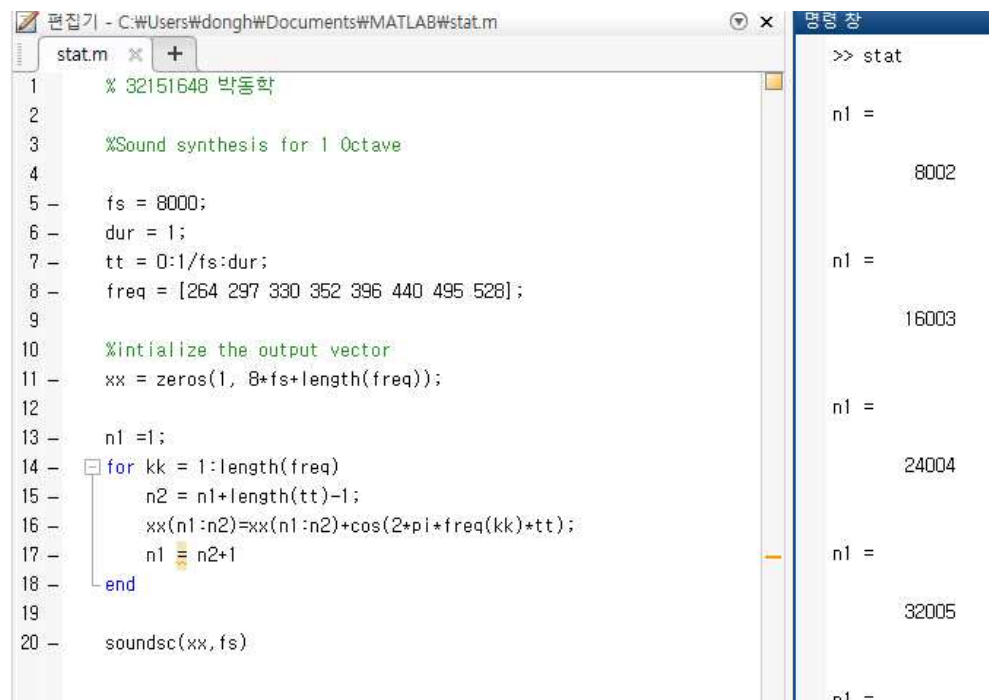
```
0
```

fx >>

7. fs가 10000인 함수를 그려보고 time-domain / frequency-spectrum보기



8. 사운드



9. 이미지 색상 다루기

