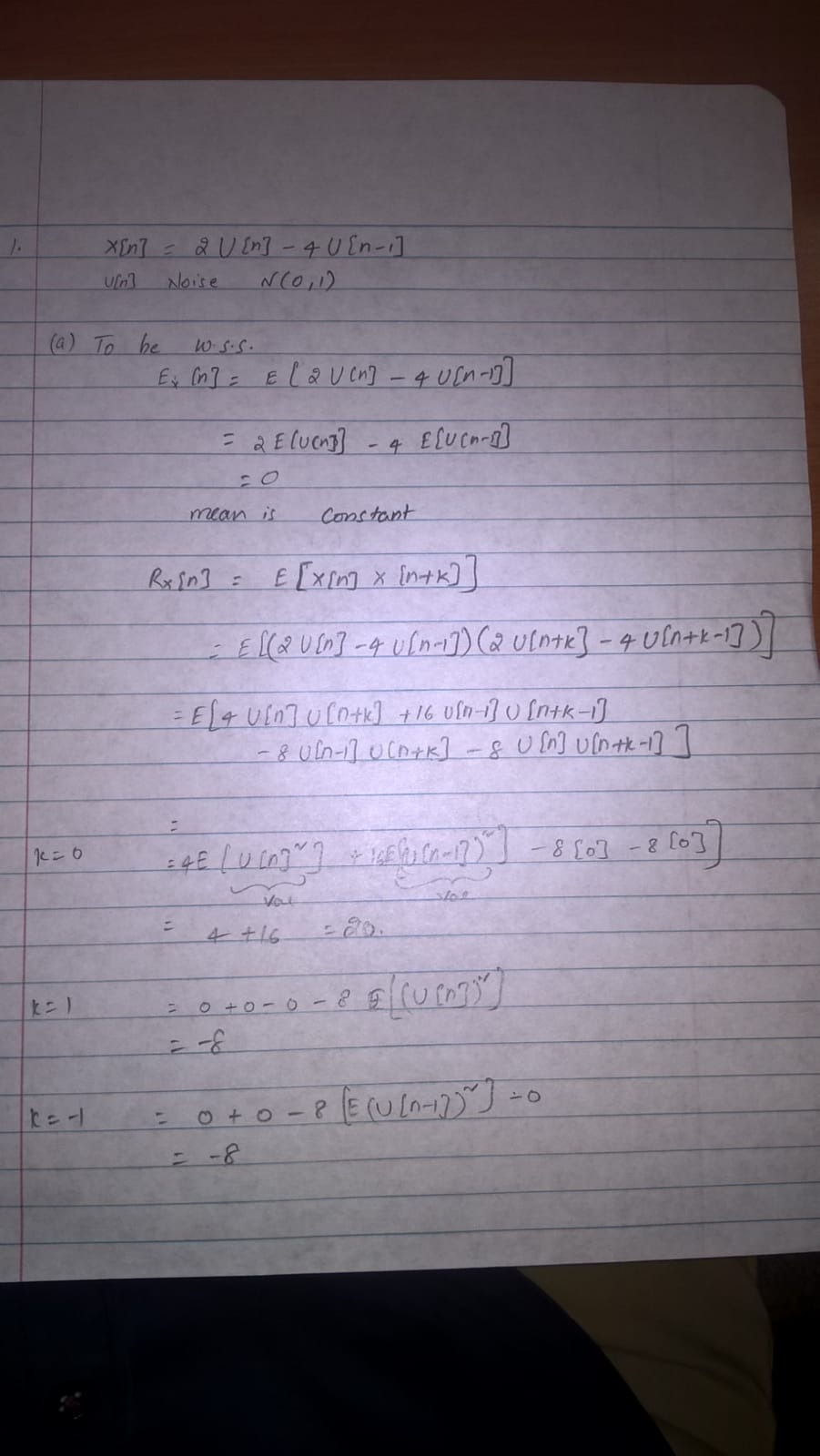
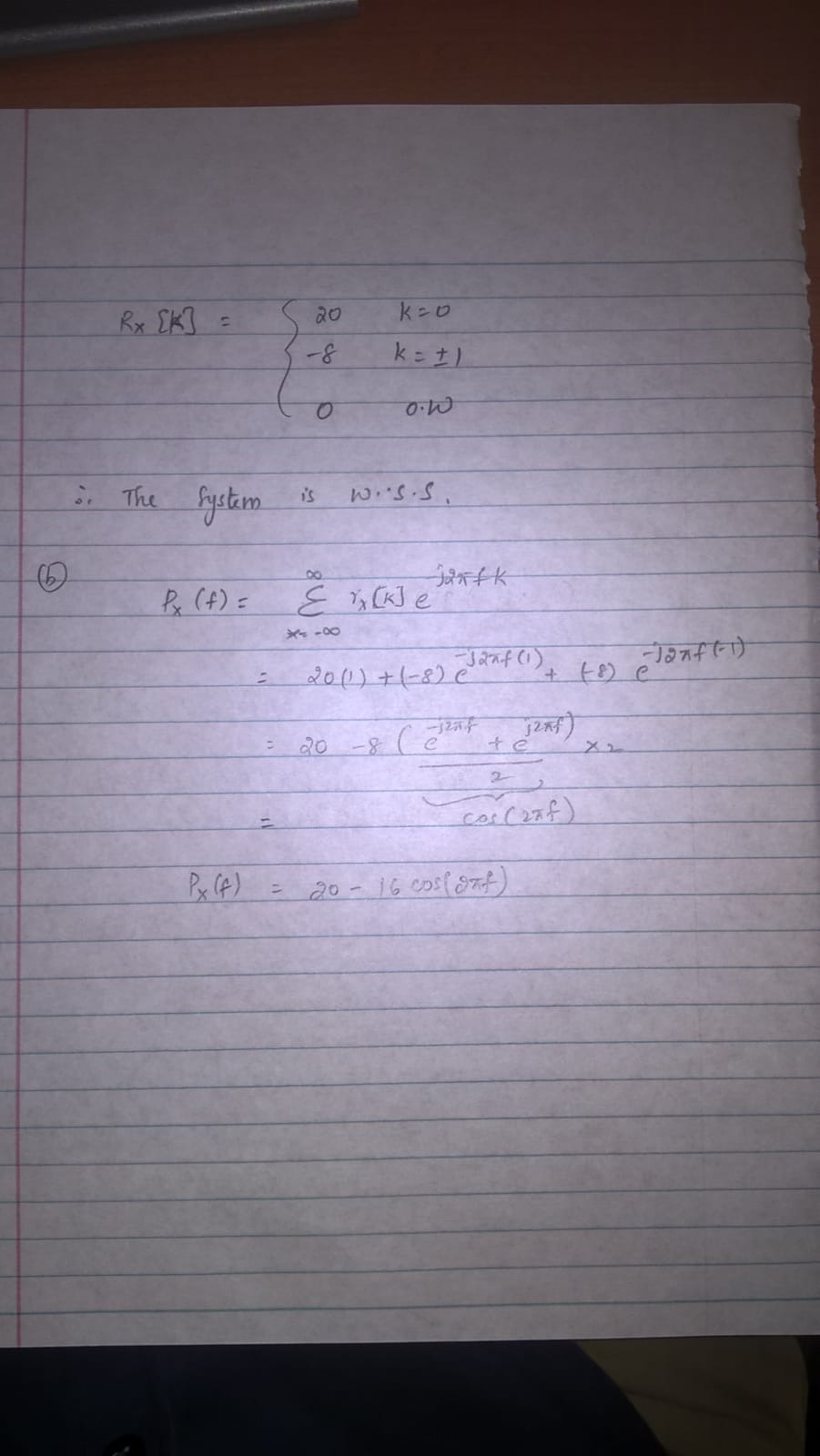
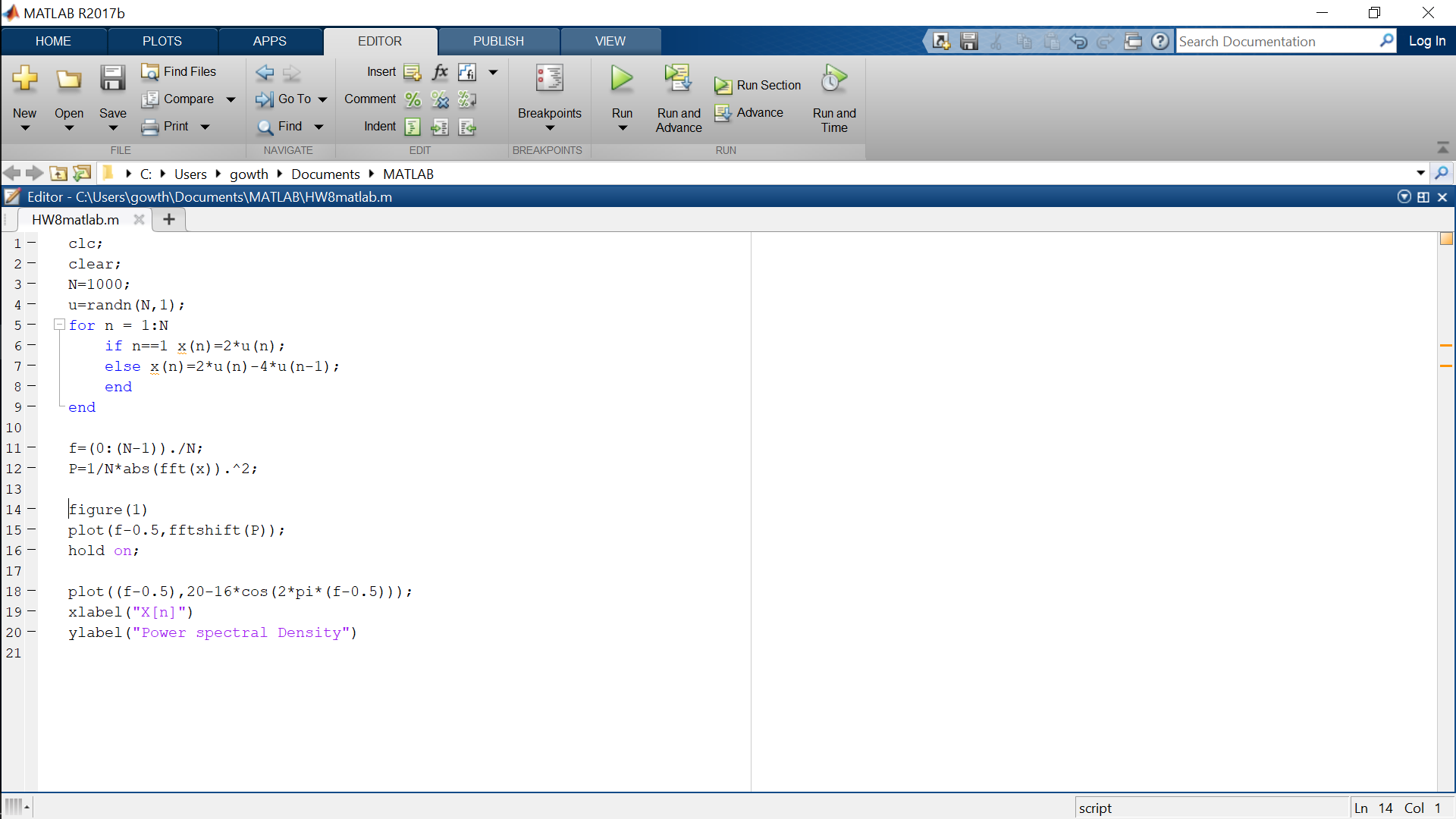
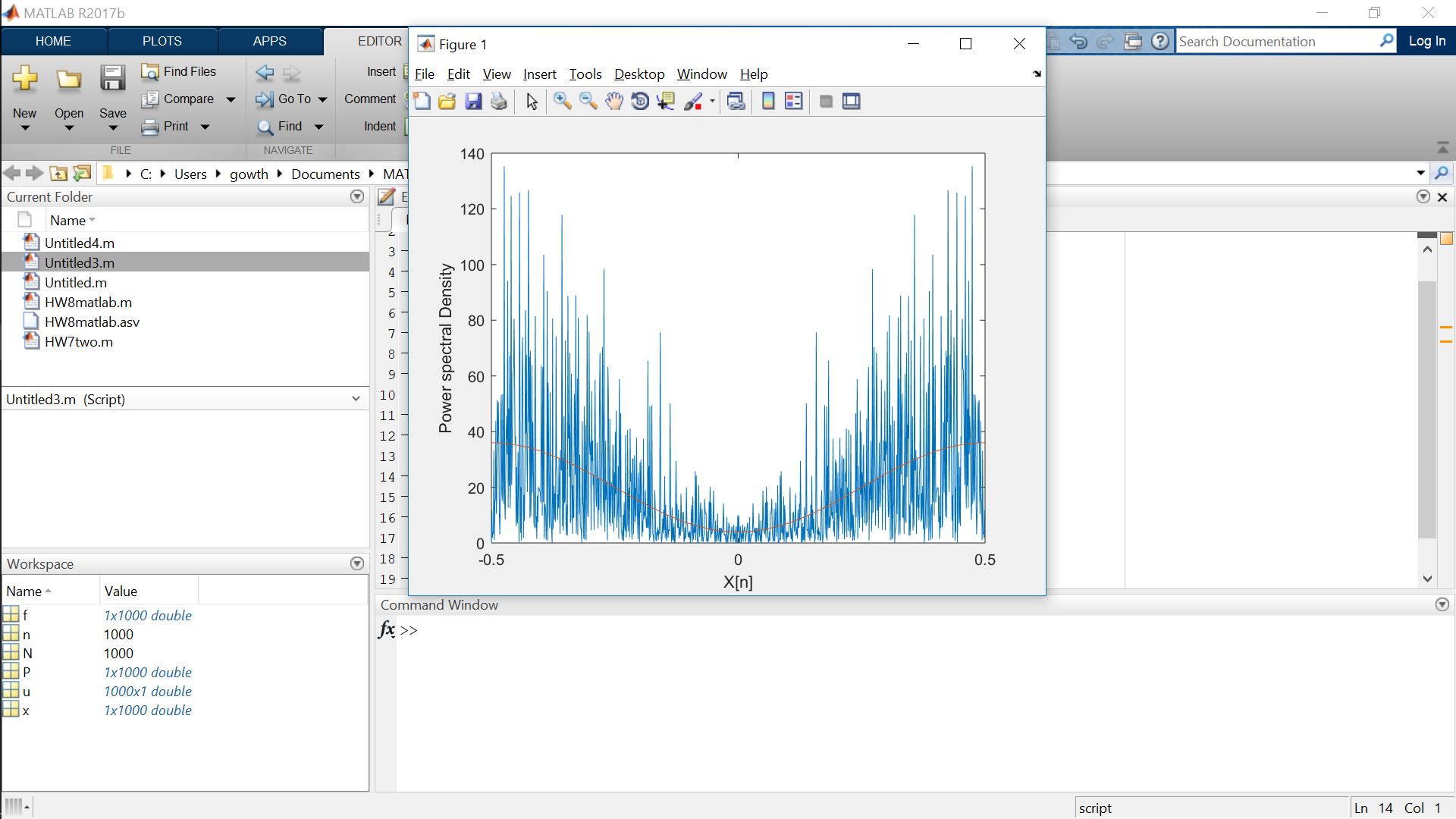
1.



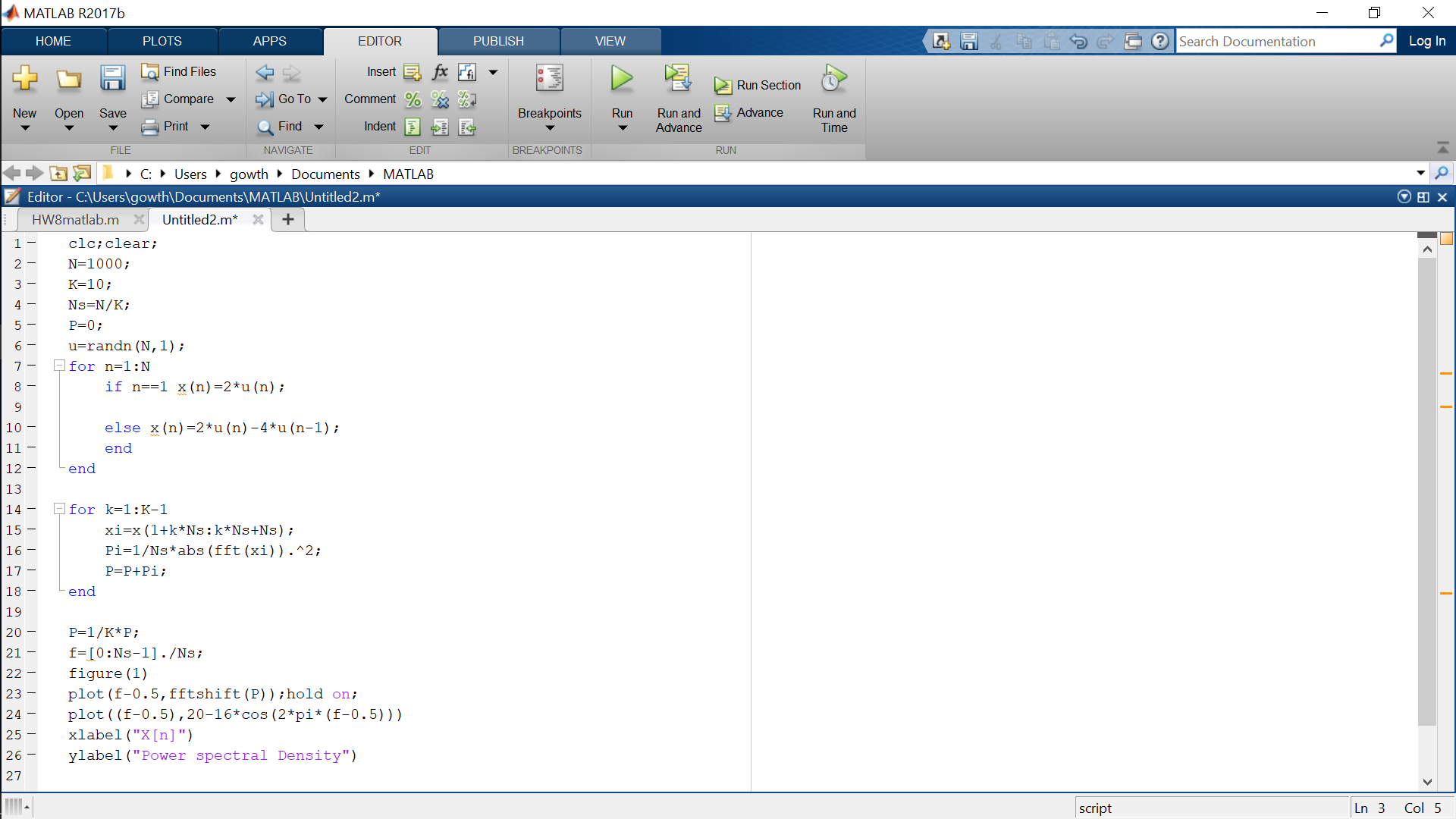


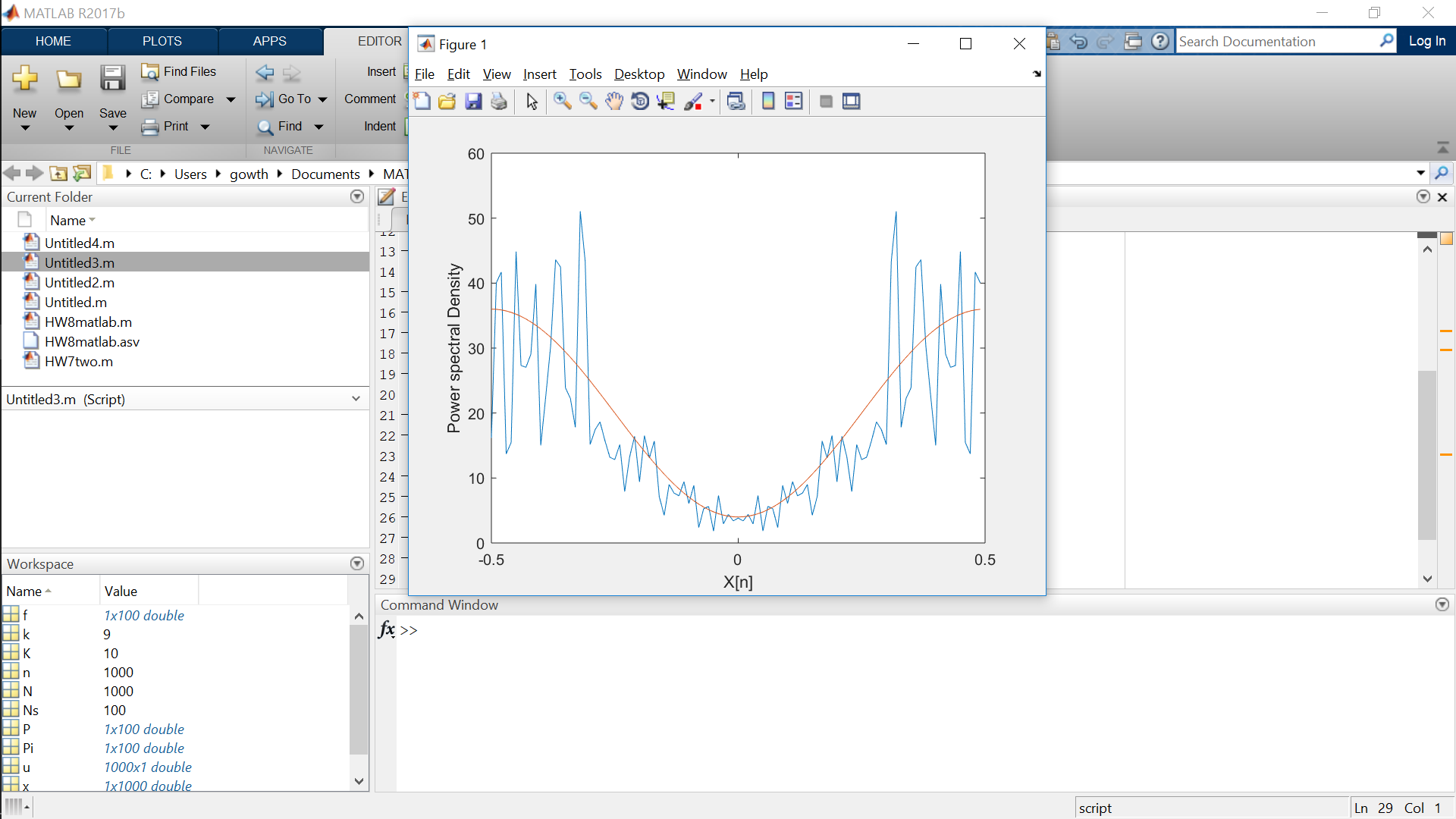
1.b. Matlab code



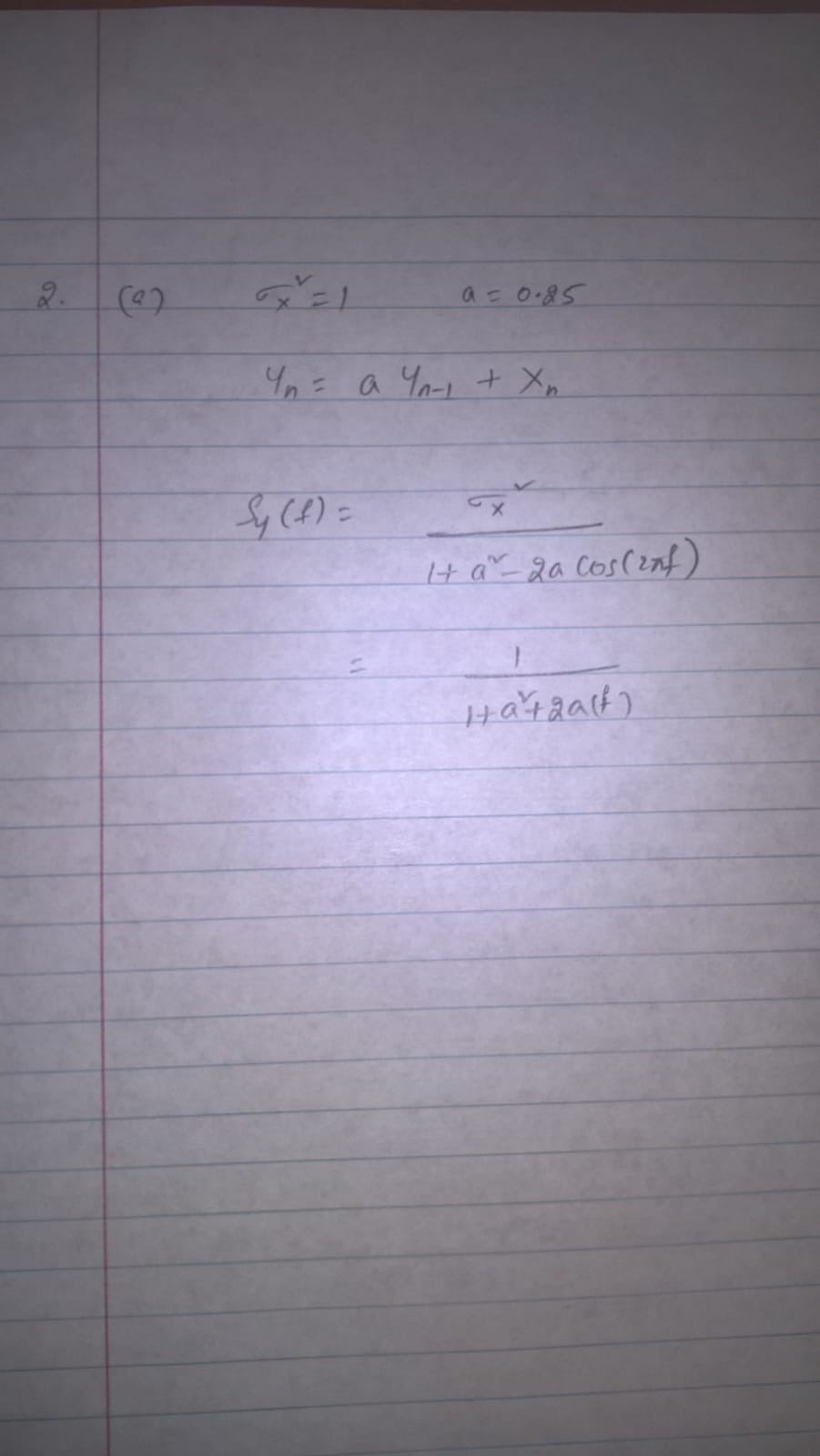


1.c Matlab Code

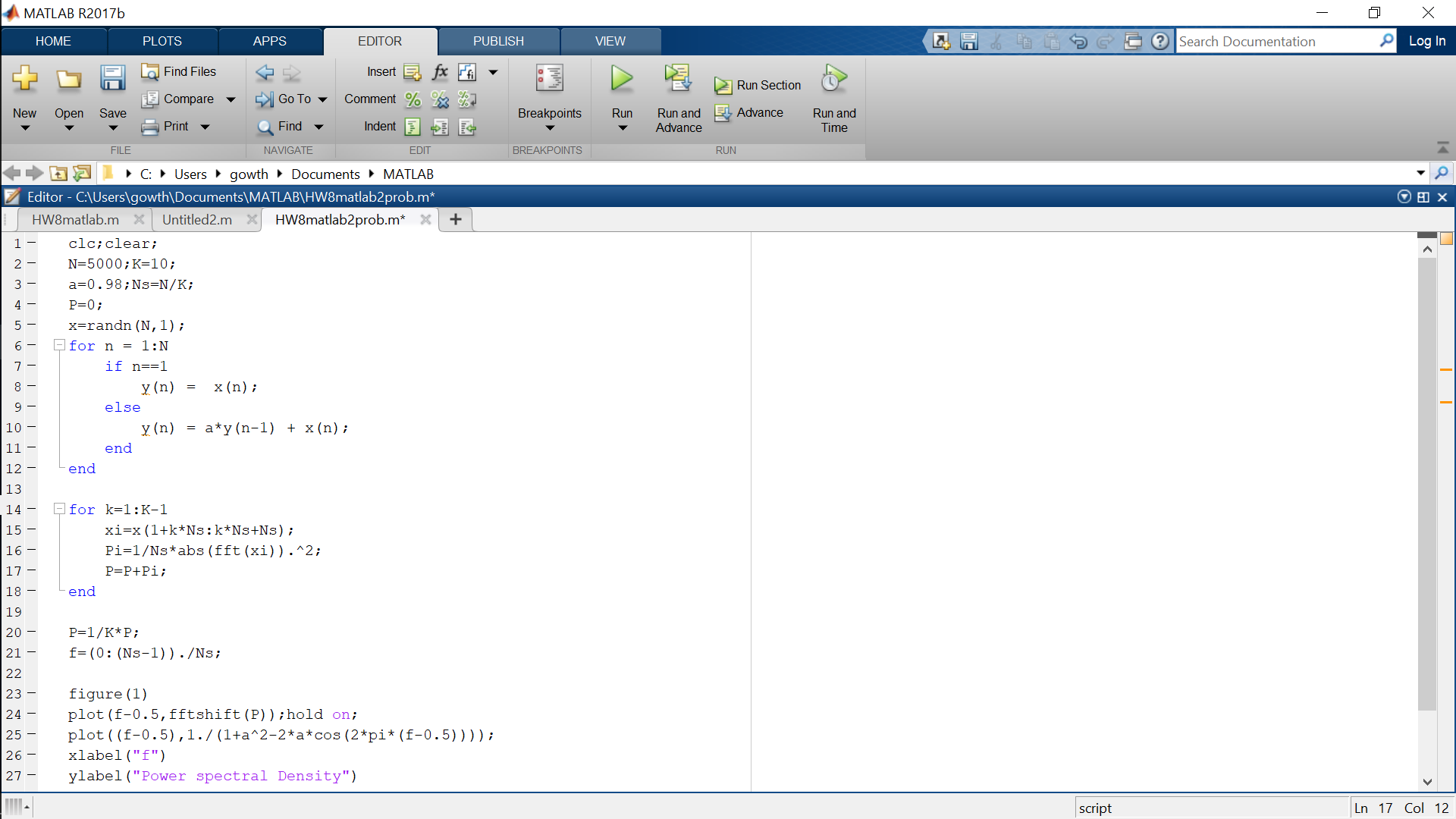




2.a.



matlab code

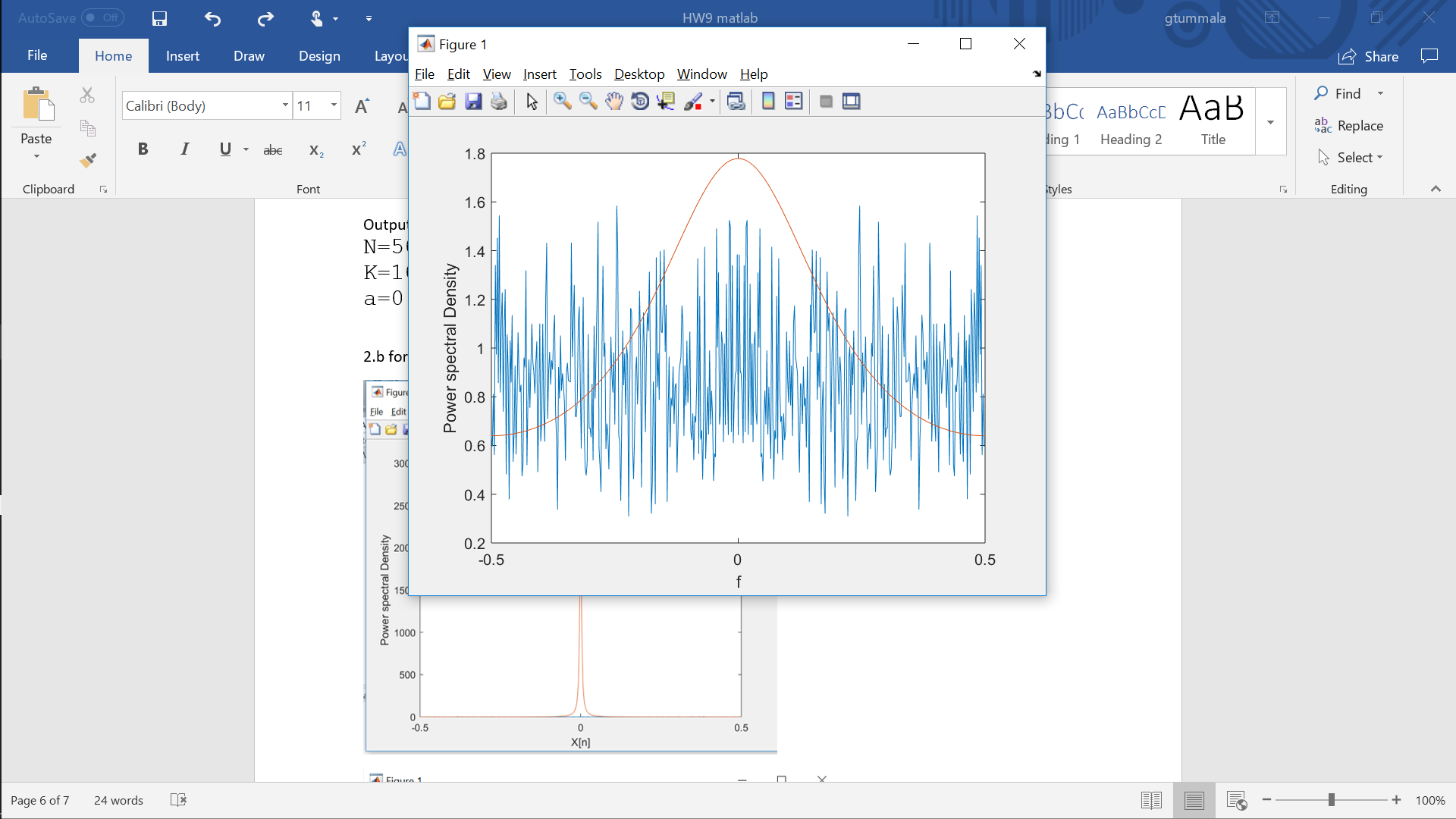


Output for

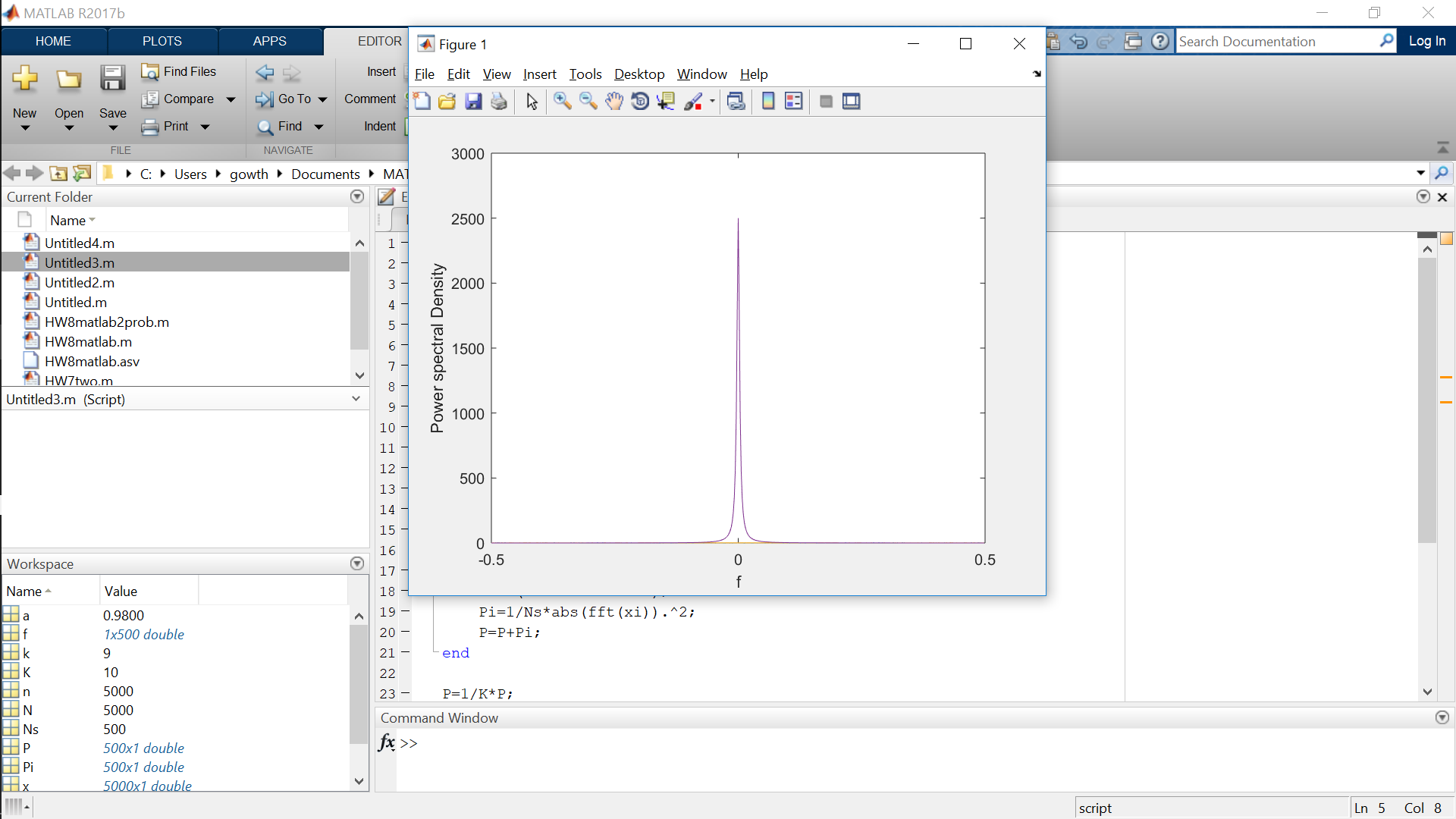
N=5000;

K=10;

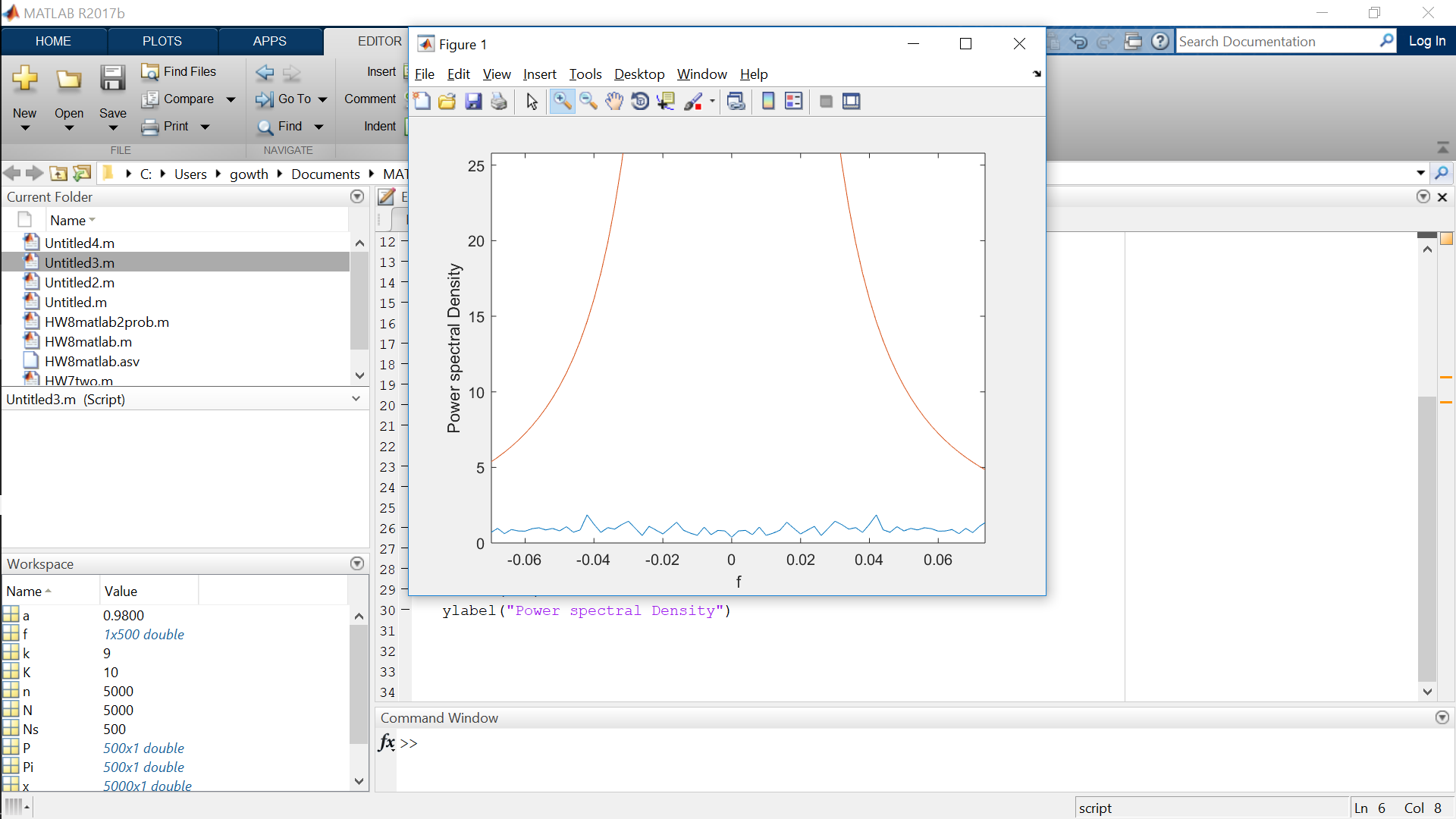
a=0.25;



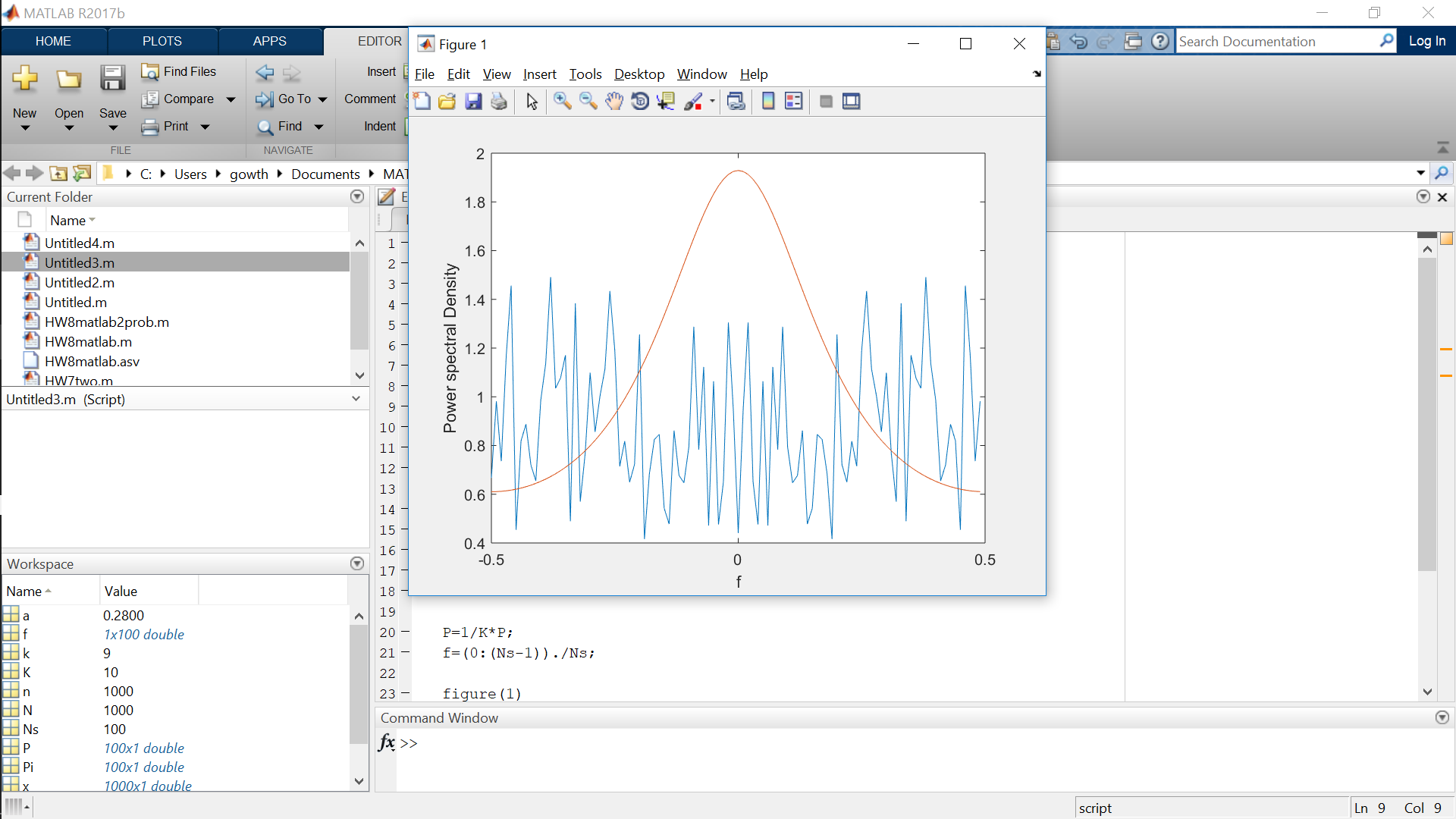
2.b for N=5000;K=10;a=0.98;



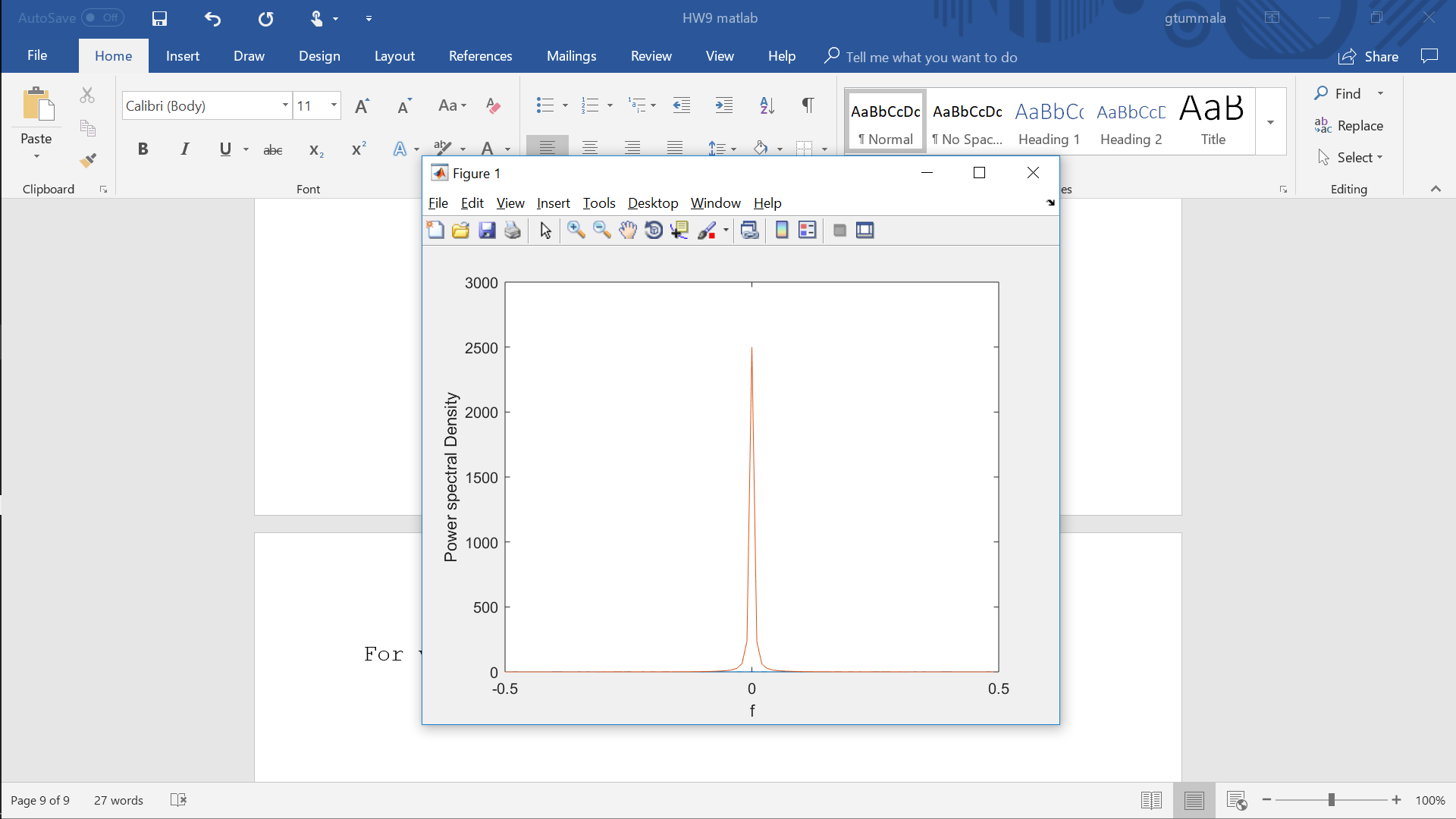
Zoom in Screenshot

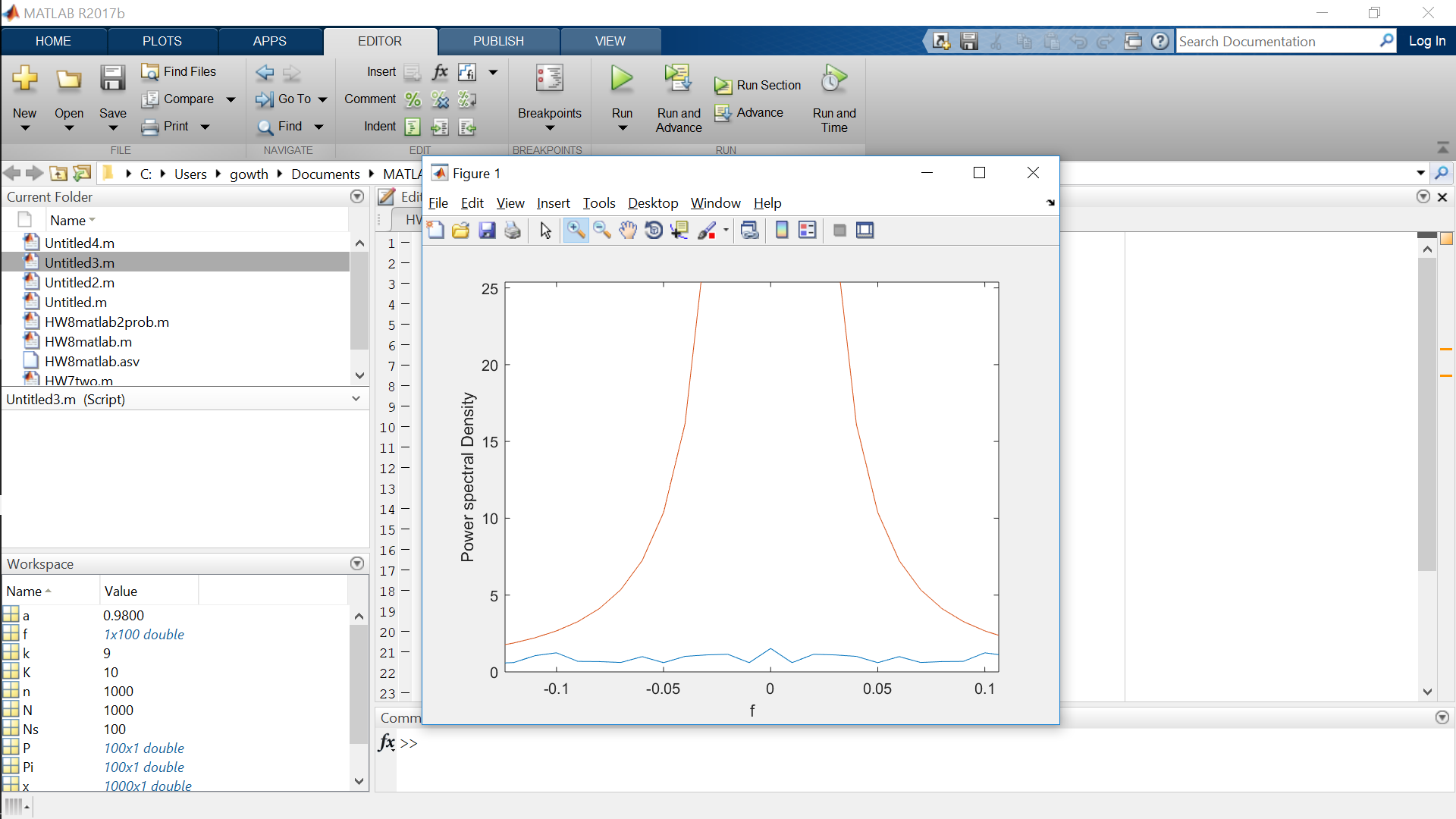


For values N=1000;K=10;a=0.25;



For values N=1000;K=10;a=0.98;





By comparing all the values for a,

Correlation increases with the increase in the value of a.

GOWTHAM TUMMALA

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