MATLAB ASSIGNMENT-5

SIMILARITY AND ORTHOGONAL TRANSFORMATION

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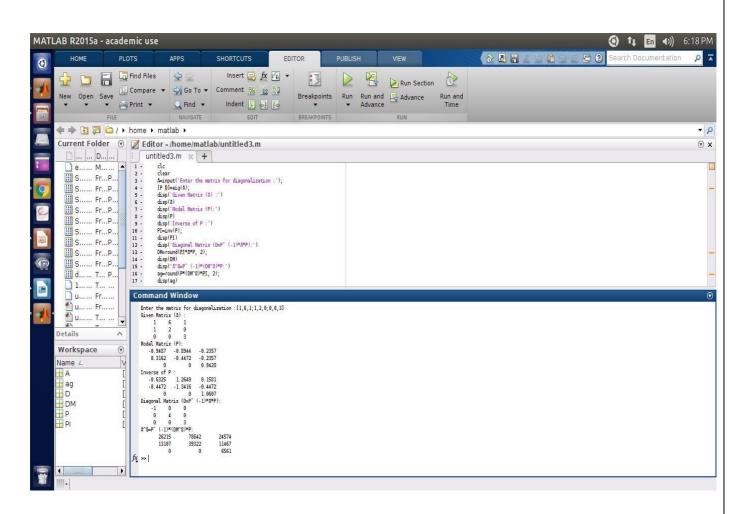
SLOT: - L15 +L16

SESSION: - WINTER SEMESTER 2018-2019

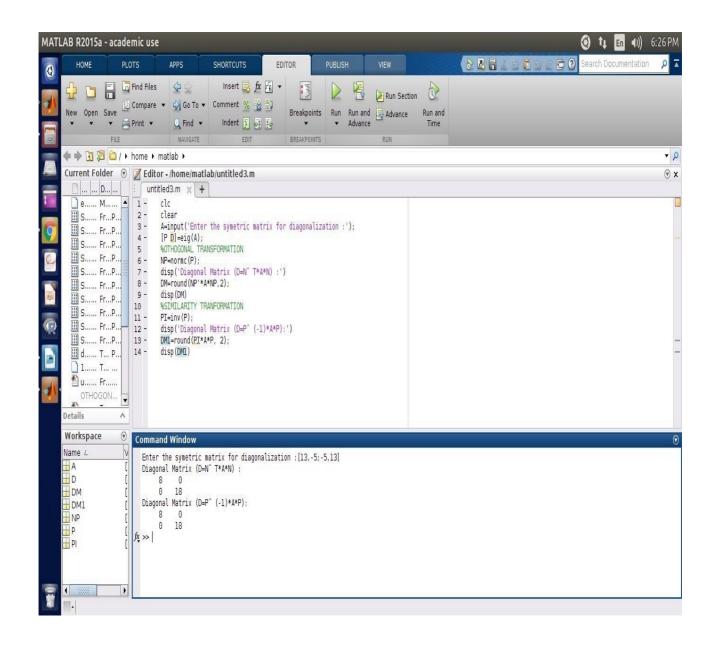
FACULTY: - PROF. POORNIMA T

> DATE: - 30th JANUARY 2019

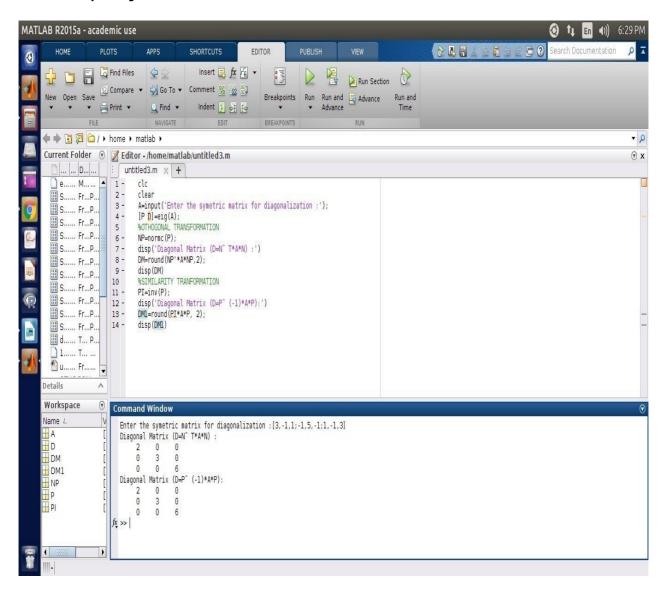
1. Diagonalize A = [1,6,1;1,2,0;0,0,3] by similarity transformation and hence find A^8.



2.Transform the quadratic form $13x^2 - 10xy + 13y^2$ to canonical form and specify the matrix of transformation.



3.Transform the quadratic form $3x^2 + 5y^2 + 3z^2 - 2yz + 2zx - 2xy$ to canonical form and specify the matrix of transformation.



-----THANK YOU-----