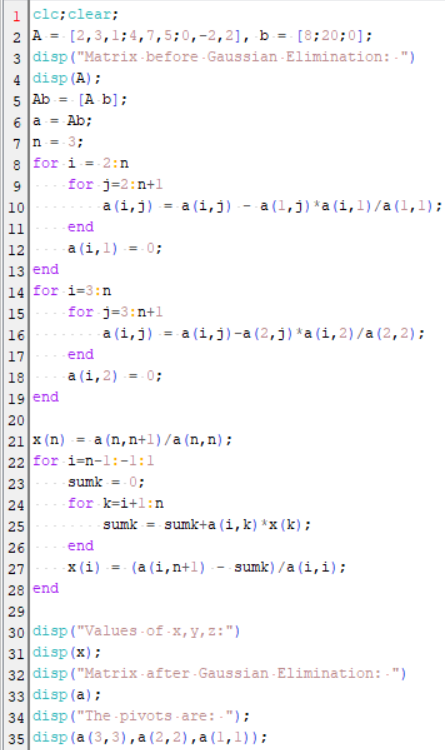
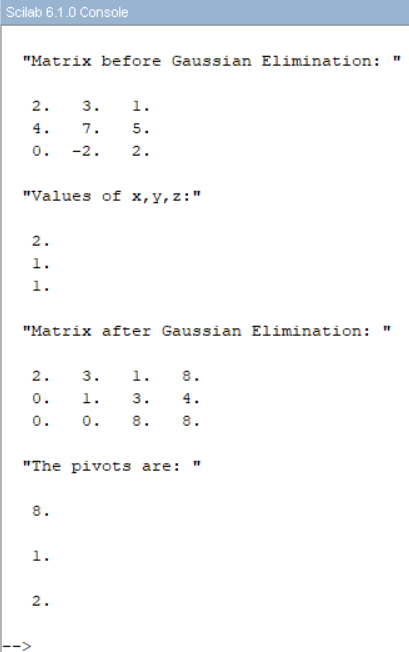
**Program 1 – Gaussian Elimination**

Code:

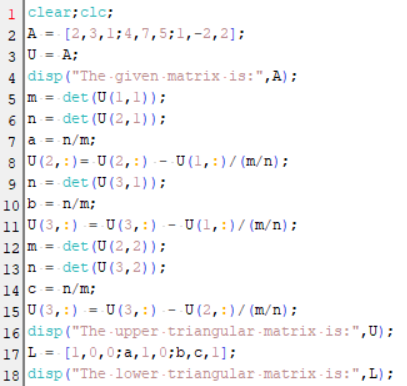


Output:

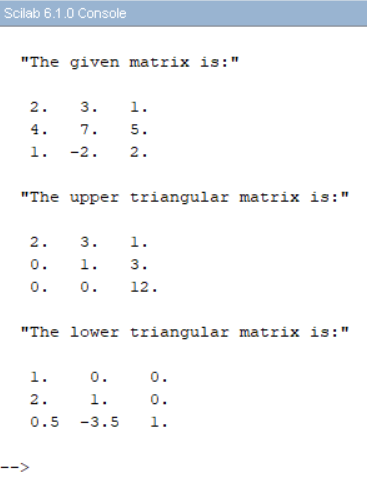


**Program 2 – LU Decomposition**

Code:

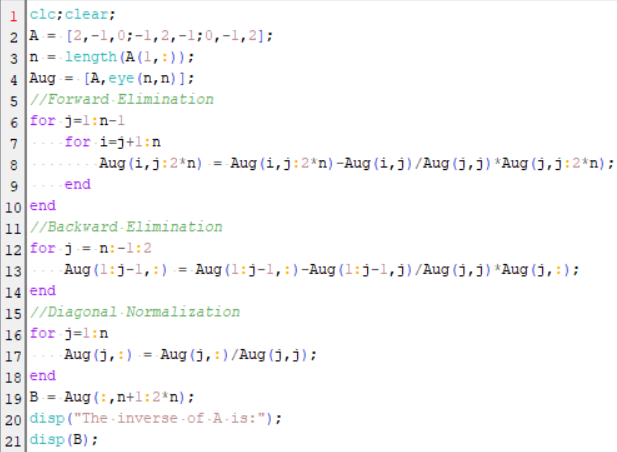


Output:

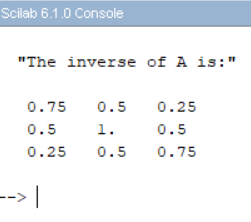


**Program 3 – Gauss-Jordan Inverse**

Code:

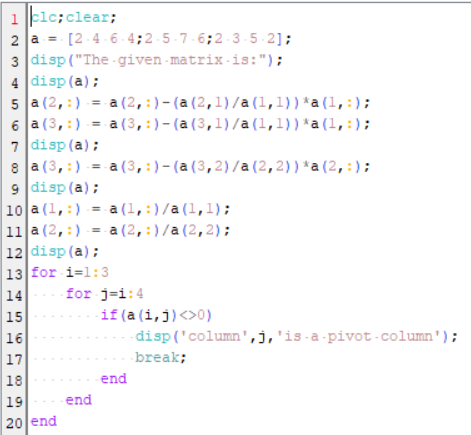


Output:

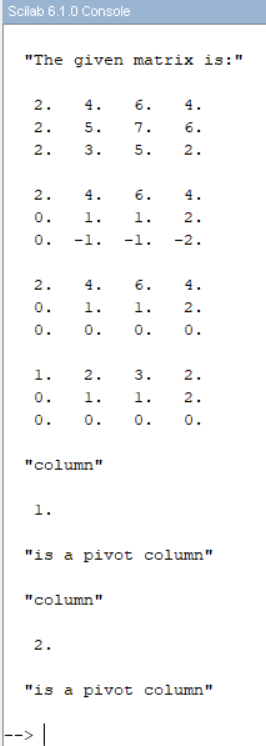


**Program 4 – Span of Column Space**

Code:

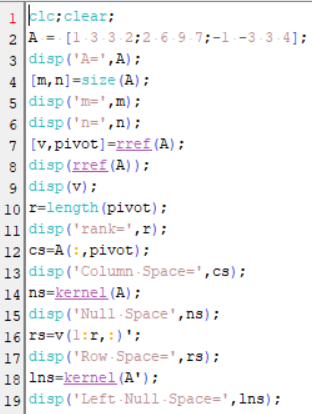


Output:

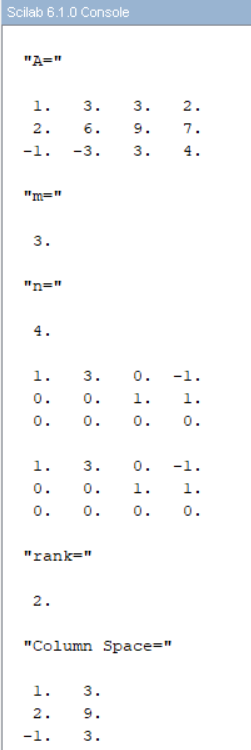


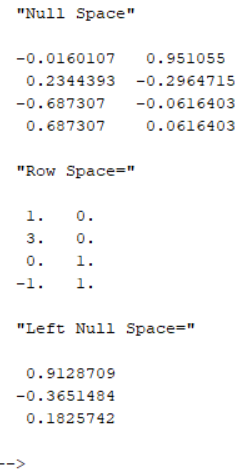
**Program 5 – The Four Fundamental Subspaces**

Code:



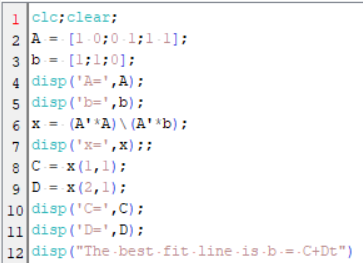
Output:



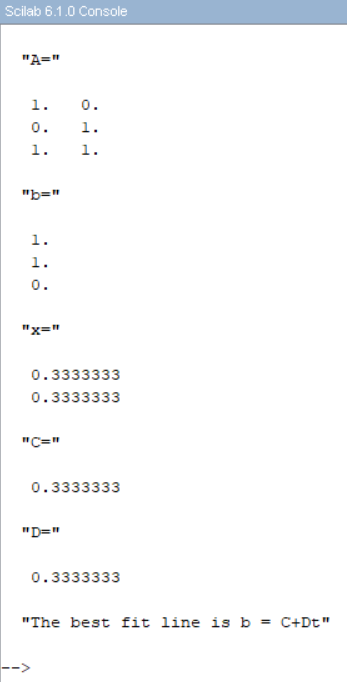


**Program 6 – Projection by Least Squares**

Code:

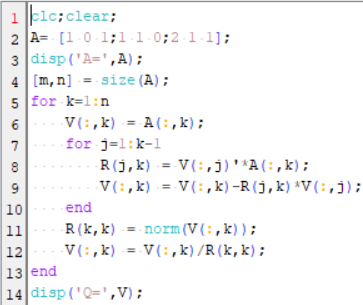


Output:

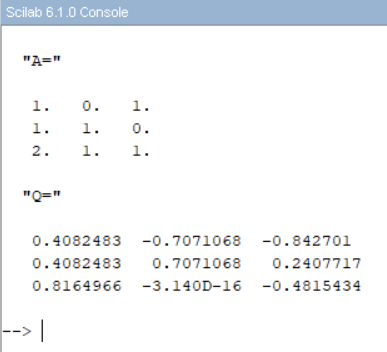


**Program 7 – Gram-Schmidt Orthogonalization**

Code:

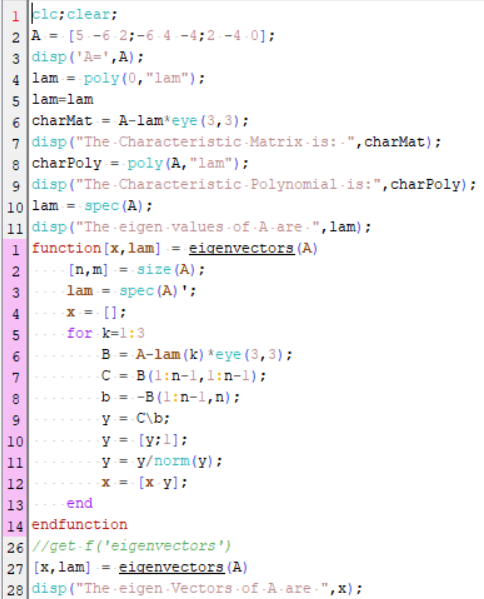


Output:



**Program 8 – Eigen Values and Eigen Vectors**

Code:



Output:

