OBJECTIVE

1. Our first objective here is to empathetically assert with appropriate examples that some properties which hold for real numbers do not hold in the algebra of Matrices.

2. Second objective in this module is to understand the notions of Determinant, Adjoint and Inverse. We also wish to list important properties of determinants. We also propose to discuss two equivalent ways of finding the determinants.

3. Next objective of this module is to introduce with proper examples the idea of a rank of a Matrix. This we propose to do in two different but equivalent ways.

4. Last objective of this module is to discuss the solutions of system of simultaneous linear equations. We also wish to briefly discuss as to how these ideas can be used to solve a problem arising from economics.