## KAREEM JADESOLA TANWA

15/ENG02/033

COE 512

A. Linear programming is an application of matrix algebra used to solve a broad class of problems that can be represented by a system of linear equations. A linear equation is an algebraic equation whose variable quantity or quantities are in the first power only and whose graph is a straight line. LP problems are characterized by an objective function that is to be maximized or minimized, subject to a number of constraints. Linear programming is a mathematical modeling technique in which a linear function is maximized or minimized when subjected to various constraints. This technique has been useful for guiding quantitative decisions in business planning, in industrial engineering

B.

Z = 10,500

MAX Z = 30(300) + 20(450)

=18000 NAIRA

S1



