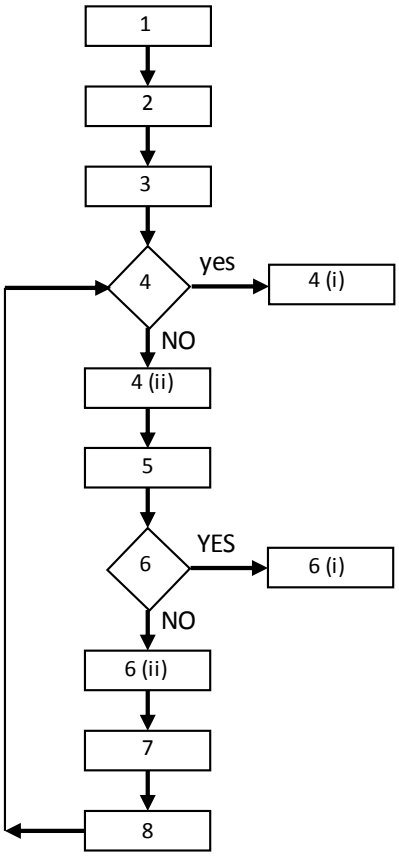
SIMPLEX METHOD FLOW CHART



(1) Write LPP in standard form

(2) Write initial basic feasible solutions (not compulsory)

(3) Setup initial simplex table

(4) **are** all entry in z row non-negative?

(i) The current solutions is optimal basic feasible solution

(ii) Select key column with smallest negative value in z - row

(5) Obtain replacement ratio by dividing solution column with key column

(Neglect negative, infinite ratio)

(6) are all ratio negative?

(i) If all ratios are negative/ infinite then the LPP has unbounded solution

(ii) Select key row with minimum finite ratio

(7) Find key element as intersection of key row and key column

(8) Update Simplex table by following elementary row transformation

(i) make key element 1 by dividing key row by key element

(ii) make all other elements of key column zero by adding or subtracting proper multiple of new row to old row