Lab Assignment 7\_ Revised Simplex 12/10/2022

(This question is uploaded in Moodle. Refer to your theory lecture note. First solve one example from the lecture note manually then proceed to write the code)

Q 1.

Write codes for the Revised simplex method for the following linear programming problem and upload in Moodle by 5 PM( whatever you have completed in the LAB). Later you will be given time to upload the complete code.

Maximize c1x1+ c2x2+……….+cnxn

Subject to

a11x1+ a12x2+…………..+ a1nxn  <= b1

a21x1+ a22x2+…………..+ a2nxn  <= b2

……………………………………..

am1x1+ am2x2+…………..+ amnxn  <= bm

where xj>=0, j=1,2,…,n ; bi >=0 for all i.

INPUT: aij, cj, bi

\* AT EVERY ITERATION PRINT B, C\_B, X\_B and print the final optimal solution.

Verify with the example, discussed in the class.