CS69011: Computing Lab
Task : Linear Programming and Integer Programming

September 4, 2023

==========Instructions==========
1. In the case of user input, assume only valid values will be passed as input.
2. Regarding submission: Create a separate Python file for each task : **<RollNo>_T1.py <RollNo>_T2.py <RollNo>_T3.py**
3. Create a zipped file of all these Python files with the name:
   <RollNo>_LP_TS.zip and submit it to Moodle.
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T2 (25 - 35 mins). Using Python OR-Tools(pywraplp) find the maximum value of *ax + by* subject to some user defined constraints:-

constraints format = <n1>x + <n2>y <condition> <n3>.
where <n1>, <n2>, <n3> are numbers and <condition> ∈ {“g”, “ge”, “l”, “le”, “eq”}
“g” = greater, “ge” = greater than and equals to, “l” = less than, “le” = less than and equals to, “eq” = equals to

Sample Input - (for a = 3, b = 4)

3 4
1 2 le 14
3 -1 ge 0
1 -1 e 2

Sample Output -

Solution of T1