

BSc in Information Technology Specializing Data Science Semester 02 Lab Exercise 09 IT3071 – Machine Learning and Optimization Methods 2022 Linear Programming – Graphical Method

(01) Solve the following maximization problem using the Graphical Method.

Maximize
$$Z = f(x,y) = 3x + 2y$$

subject to: $2x + y \le 18$
 $2x + 3y \le 42$
 $3x + y \le 24$
 $x \ge 0$, $y \ge 0$

(02) Solve the above problem using Python Pulp library.