Screening Task
for
P(11-6) - Project Research Assistant

Please attempt both the tasks. Remember that your submission will be graded on the quality of your work and validity of the results.

Task 1:

Step 1: Download and install the Google OR-Tools.

Step 2: Learn the basic information about GLOP (the toolkit's linear programming routine)

Step 3: Solve the following problem (The Reddy Mikks model) using GLOP in C++:

$\text{Max}_x \quad 5x_1 + 4x_2$

subject to:

$6x_1 + 4x_2 \leq 24$

$x_1 + 2x_2 \leq 6$

$-x_1 + x_2 \leq 1$

$x_2 \leq 2$

$x_1 , \ x_2 \geq 0$

Task 2:

Develop at least two examples (textbook or research paper) using the FOT on Scilab.

Step 1: Download **Scilab 5.5.2**

Step 2: Install the FOT

Step 3: Develop the examples.

Submission procedure for both Task 1 and Task 2:

1. Put your code along with other supporting files (if any) in a folder. You may put a README file inside the folder, if you want, to give us more information about your submission. Rename that folder as "first_name-job_code", without quotes. For example, **P(11-6)-satish**
2. Compress the folder in ZIP format. Avoid any other compression format.
3. Mail the zip file to **info@fossee.in**.

Make sure to put the mail subject-line as "j**ob-code-YourName** without quotes. For example, "**P(11-6)-satish**" No extension in the deadline will be considered for submission of screening task