Start coding or generate with AI.

!pip install pulp → Collecting pulp Downloading pulp-3.1.1-py3-none-any.whl.metadata (1.3 kB) Downloading pulp-3.1.1-py3-none-any.whl (16.4 MB) - 16.4/16.4 MB <mark>51.8 MB/s</mark> eta 0:00:00 Installing collected packages: pulp Successfully installed pulp-3.1.1 from pulp import LpMaximize, LpProblem, LpVariable, lpSum model = LpProblem(name="maximize_profit", sense=LpMaximize) A = LpVariable(name="Product_A", lowBound=0, cat="Continuous") B = LpVariable(name="Product_B", lowBound=0, cat="Continuous") model += 30 * A + 50 * B, "Total Profit" model += (2 * A + 4 * B <= 40, "Labor Constraint")</pre> model += (3 * A + 5 * B <= 50, "Material Constraint") model.solve() print(f"Optimal Production of Product A: {A.varValue}") print(f"Optimal Production of Product B: {B.varValue}") print(f"Total Maximum Profit: \${model.objective.value()}") → Optimal Production of Product A: 0.0 Optimal Production of Product B: 10.0 Total Maximum Profit: \$500.0