HTN0: 17K41A05F8

NAME: HIMAVARSHINI

**Objective function**: 50\*x+120\*y

**Constraints:**

1.7000\*x+2000\*y<=700000

2.10\*x+30\*y<=1200

3.x+y<=110

**Boundaries:**

x,y>=0

**Code:**

from scipy.optimize import linprog

obj=[-50,-120]

lhs\_ineq=[[7000,2000],[10,30],[1,1]]

rhs\_ineq=[700000,1200,110]

bnd=[(0,float("inf")),(0,float("inf"))]

opt=linprog(c=obj,A\_ub=lhs\_ineq,b\_ub=rhs\_ineq,bounds=bnd,method="simplex")

opt

**output:**

