Prac-4

from scipy.optimize import minimize

import numpy as np

# Define the objective function

def objective(x):

  return -10 \* np.cos(np.pi \* x - 2.2) + (x + 1.5) \* x

# Set up the optimization problem

result = minimize(objective, x0=0, bounds=[(-5, 5)])

# Display the results

print("Global Optimal Solution:")

print("Optimal value of x:", result.x)

print("Optimal value of f(x):", result.fun)

