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# Re-executing the provided Python script for carbon footprint estimation
import random
# Carbon footprint factors (in kg CO2 per unit)
carbon_factors = {
  "electricity": 0.5, # kg CO2 per kWh
  "transport_car": 2.3, # kg CO2 per liter of fuel
  "public_transport": 0.1, # kg CO2 per km
  "meat_consumption": 27, # kg CO2 per kg of meat
  "plant_based_diet": 2, # kg CO2 per kg of plant food
}
# Al-driven recommendations
tips = [
  "Switch to renewable energy sources like solar or wind.",
  "Use public transport, cycle, or walk instead of driving.",
  "Adopt a plant-based diet to reduce food-related emissions.",
  "Reduce, reuse, and recycle to minimize waste.",
  "Use energy-efficient appliances to save electricity."
def estimate_carbon_footprint(electricity, transport_car, public_transport, meat, plants):
  """Calculate the estimated carbon footprint."""
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footprint = (
    electricity * carbon_factors["electricity"] +
    transport_car * carbon_factors["transport_car"] +
    public_transport * carbon_factors["public_transport"] +
    meat * carbon_factors["meat_consumption"] +
    plants * carbon_factors["plant_based_diet"]
  )
  return footprint
def get_suggestion():
  """Return a random sustainability tip."""
  return random.choice(tips)
# Example user input
user_footprint = estimate_carbon_footprint(
  electricity=300, #kWh per month
  transport_car=50, # liters of fuel per month
  public_transport=100, # km per month
  meat=5, # kg of meat per month
  plants=10 # kg of plant-based food per month
)
# Output results
user_footprint, get_suggestion()
```