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# P2LAB2 - Vehicle MPG Dictionary
# This program stores a dictionary of vehicles and their MPG,
# which allows the user to select a vehicle, and calculates the gallons
# of gas needed by car to reach a destination within by number of miles.

# Dictionary of cars and their MPG
vehicle_mpg = {
    "Camaro": 18.21,
    "Prius": 52.36,
    "Model S": 110,
    "Silverado": 26
}

# Get and display the list of vehicle keys
keys = vehicle_mpg.keys()
print("Available vehicles:")
print(keys)

# Prompt the user to enter a vehicle name exactly as shown
vehicle = input("Enter a vehicle from the list above: ")

# Check if the vehicle exists in the dictionary
if vehicle in vehicle_mpg:
    mpg = vehicle_mpg[vehicle]
    print(f"The {vehicle} gets {mpg} miles per gallon.")

    # Ask for the number of miles to be driven
    miles = float(input("Enter the number of miles you will drive: "))

    # Calculate and display gallons needed
    gallons_needed = miles / mpg
    print(f"You will need {gallons_needed:.2f} gallons of gas to drive {miles} miles.")
else:
    print("Vehicle not found. Please enter the name exactly as shown.")

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