

Carbon Footprint Calculator

Lab 1

In this lab you will practice reading in input from the user, storing that input in variables, doing basic arithmetic, generating random numbers, and printing so that the user can get feedback.

Input

Ask for and store the following information about the user:

- Their name
- The number of miles they drive per year
- Their gas mileage when they drive
- The number of times they eat beef in a week
- The number of times they fly in a year.

Calculate

- Gallons of gas the user consumes per year, multiplied by 20.¹
- The number of times they eat beef per year, multiplied by 60.²
- The number of flights they take per year, multiplied by 200.³

Report

Add together all the numbers you found in your calculate step and print out your resulting footprint as the gallons per year of CO₂.

Random

Randomly generate a number between 0 and 500, print out this number along with a tip to help the user have a positive impact on climate change. (The tip will be the same every time you run the program, only the number will change.)

¹<https://tinyurl.com/897c2aew>

²<https://ourworldindata.org/food-choice-vs-eating-local>

³<https://www.carbonindependent.org/22.html>

Comment and Submit

Remember to write a comment at the top of your code with your name, the date, and a brief description of what your code does. You should also comment the main body of your code to explain to the people reading it what is going on. You do not need to comment every line but you should comment a majority of the code.

Submit your program to Google Classroom. Make sure to submit the .java file of your project to google classroom not the .class or any of the other associated files.

Example Output:

```
Hello! What is your name?
Ariel

Hi, Ariel, nice to meet you. How many miles a year do you drive?
7134

Got it and how many miles do you get to the gallon when you drive?
57.2

Ok, so that means you use 124.72027972027972 gallons of gasiline a year.

Just a few more questions.
How many times a week do you eat beef?
0

Got it. Last one: How many hours do you spend flying in a plane each year?
8

OK Ariel a very rough estimate of your carbon footprint is: 5694.40559440559
45 pounds per year.

Fun Fact #158 While it is great to reduce your personal carbon footprint, co
mpanies produce the vast majority of carbon emmissions. If you are intereste
d in fighting climate change the most important thing is to pressure compant
ies to change either through your spending habits or your vote.
> 
```