Uswitch Extension Exercise

So far, you have priced a collection of plans given a kWh consumption, and also calculated usage given a customer's annual spend.

In this extension exercise, we will be adding a new feature to the program that will apply discounts to your calculation.

New Data

We have provided a new set of plans, inputs and expected output.

This new data contains the additional attribute; discounts.

You should download these files from

http://bit.do/rvu-extension-plan-data

http://bit.do/pricing-plans-with-discounts

http://bit.do/usage-calculation-with-discounts

Types of discount

A plan can now include a discount, or it can have no discount at all.

Discounts are applied to the whole bill, and looks like the following:

- applies_to refers to the type of discount being described.

 In this case, whole_bill which are lump monetary amounts taken off the bill, in pence.
- amount in pence is the integer amount to be discounted from the bill

Your task is to update your program to apply the discount, first for the price, and then for the usage commands.

Notes

- All discounts should be removed **before** VAT is applied
- · Discounts are in an Array
- There can be either, **zero** or **one** discounts in the array

Testing your changes

To help check the output of your program, we have provided some Feature files.

These are natural language descriptions of what your program should do, given certain parameters.

Preparing your Automated Scenarios

Save the discounted plans at the root of your project with the name "plans-with-discounts.json".

You will need to have the following step definitions that will allow your program to load in the new discounted plans. These can be found in stepdefs.rb/stepdefs.js

```
def load_plans(filepath)
    file = File.open(File.expand_path(filepath))
    data = JSON.load(file.read)
end

Given("the plans provided") do
        @market = EnergyMarket.new(load_plans("../plans.json"))
end

Given("plans with discounts") do
        @market = EnergyMarket.new(load_plans("../plans-with-discounts.json"))
end

When("monthly spend is {float} pounds") do |float|
        @monthly_spend = float
end
```

Running the Automated Scenarios

In the interview you may find it useful to run individual features using tags (e.g add @wip to the top of the feature you are working on)

Ruby

```
cd {coding-test-dir}/ruby
bundle
cucumber
You can run an individual scenario using tags
cucumber --tags @price
cucumber --tags @usage

JS
cd {coding-test-dir}/js
npm install
npm test
{coding-test-dir}/js/node modules/cucumber/bin/cucumber-js --tags @price
```