How To Run Lavan's Program

Prerequisites: Install Kotlin on your machine
Command:

```
Unset

java -jar LavanNithianandarajah.jar
```

Input

The input is hard-coded at the moment to the list of transactions to be considered by the problem. This input can be made by the user but for simplicity I just used the input provided by the problem set.

```
Unset


transactions = {
 "T01": {"date": "2021-05-01", "merchant_code" : "sportcheck", "amount_cents":
21000}, "T02": {"date": "2021-05-02", "merchant_code" : "sportcheck",
"amount_cents": 8700}, "T03": {"date": "2021-05-03", "merchant_code" :
"tim_hortons", "amount_cents": 323}, "T04": {"date": "2021-05-04",
"merchant_code" : "tim_hortons", "amount_cents": 1267}, "T05": {"date":
"2021-05-05", "merchant_code" : "tim_hortons", "amount_cents": 2116}, "T06":
{"date": "2021-05-06", "merchant_code" : "tim_hortons", "amount_cents": 2211},
"T07": {"date": "2021-05-07", "merchant_code" : "subway", "amount_cents": 1853},
"T08": {"date": "2021-05-08", "merchant_code" : "subway", "amount_cents": 2153},
"T09": {"date": "2021-05-09", "merchant_code" : "sportcheck", "amount_cents":
7326}, "T10": {"date": "2021-05-10", "merchant_code" : "tim_hortons",
"amount_cents": 1321}


}
```

Design choices

 I decided to implement this algorithm in the console as I saw calculating the monthly rewards as the highest priority and elements of design such as UI/UX, additional features, and styling to come after this primary building block. With this algorithm and choice in the programming language Kotlin an Android application can be implemented quickly which comes with polishing touches to the core algorithm in a user friendly manner. If you have any other questions about my design choice please let me know, I would love to talk about it 🙂