**Analysis for the project**

**Input:**

Name, sex, address of each customer

Record purchase

Choice - whether it is the end of the day or not

- whether the owner wants a detailed report or summary report

**Process:**

* Assign each customer a unique code (starting at 1 or we can decide)
* When purchase happens the program checks whether a customer is new or not
* If the customer is new the program adds his or her details (name, sex, address)
* Record a sale in the element that matches the customer’s (the next array element)
* Allow the owner to search for a particular customer by id or name

**Output:** if owner announces it is end of day and chooses detailed report

print:- report of each customer’s details (name, sex, address)

- customer number

- corresponding sales per customer, total sales per customer and average sales per customer

If customer chooses summary report

Print: - number of customers

- total number of sales

- total number of items sold