Report:

1. The main problem of the project is the “if ladder” for calculating the net charge.

2. Test data:

Odometer at start: 800

Odometer at end: 1300

Rental days: 7

Customer name: Van

Luxury Car? Y

Month: 2

The case when the number of miles is greater than 400, the type of car is luxury and the rental month is February.

Odometer at start: 500

Odometer at end: 750

Rental days: 5

Customer name: Billy

Luxury Car? N

Month: 4

The case when the number of miles is between 100 and 400, the type of car is not luxury and the rental month is April.

Odometer at start: 400

Odometer at end: 450

Rental days: 6

Customer name: Michael

Luxury Car? N

Month: 4

The case when the number of miles is less than 100, the type of car is not luxury and the rental month is April.

Odometer at start: -1

Odometer at end: 450

Rental days: 1

Customer name: Glen

Luxury Car? N

Month: 4

The case when the initial odometer reading is negative.

Odometer at start: 100

Odometer at end: 50

Rental days: 1

Customer name: Calin

Luxury Car? N

Month: 4

The case when the final reading is less than the initial one.

Odometer at start: 100

Odometer at end: 50

Rental days: 0

Customer name: Jasmine

Luxury Car? N

Month: 4

The case when the rental days is not positive.

Odometer at start: 100

Odometer at end: 500

Rental days: 0

Customer name:

Luxury Car? N

Month: 4

The case when there is no input for customer name.

Odometer at start: 100

Odometer at end: 500

Rental days: 0

Customer name: Grace

Luxury Car? Sb

Month: 4

The case when the answer to the type of car is neither “y” nor “n”.

Odometer at start: 100

Odometer at end: 500

Rental days: 0

Customer name: Andrews

Luxury Car? Sb

Month: 114514

The case when the month number is not between 1 and 12.