Mobile Car Repair

For my final project, I decided to pick a program that displays & manages services for people to get help anywhere they need for car repair. It will ask the user what type of service they need, display important information before the user proceeds with requesting it, ask the user for their email, phone number, & address, and help the user schedule a day within a year for repairmen to arrive. The user can, during any step, go back or cancel the entire service.

I am an individual who doesn’t like going out very often, so any service that can help me from my home is always a desirable option for me. Additionally, depending on the type of repair needed for your car, you may not even be able to leave to get help, which is where this service comes into play.

One definite weakness this program will have when I start writing it is that I can’t be super descriptive about the services. I’ll list as many options as I can, but I’ll also be a bit broad and general too. I initially thought, during the step where it will display important information, I could also provide specific information about the task itself and ask additional questions to go deeper into the kind of trouble the car is having, but I don’t have that kind of knowledge about cars, so this will have to do.

It is my hope though that this program will show some strength in its simplicity to figure out. I wanted to make the program as easy to follow as possible and ensure the user can go back at certain points if needed. Due to time constraints I had, I didn’t make this option as flexible as it could have been and it isn’t available in every area, but it is present in areas that make the most sense.

START

SET class variable repairService to store repair service type and information

PRINT

Welcome to Isaac & Leshy’s Mobile Car Repair Services! What type of services do you require?

1. Engine Repair

2. Radio Repair

3. Paint Job

4. Tire Replacements

5. Other Parts Replacements (Doors, Mirrors, Chairs, etc.)

6. Improvements

7. Refuel

8. Other Type of Service

Type the number of the service you desire, then press Enter:

INPUT single number ranging from 1 to 8

IF number is valid

THEN CALL type of service input

ELSE

PRINT Please enter an number between 1 and 8.

RESTART

END IF ELSE

If engine repair was called:

PRINT You have selected Engine Repair.

What part(s) of the engine need to be repaired? For multiple parts in need of repair, separate

them by a comma (10 maximum). If you are not sure, type Unknown.

INPUT any part in need of repair OR Unknown

IF unknown

THEN PRINT The repairman will need to bring additional tools and take time evaluating the situation, possibly even leave and come back should the tools on hand not be sufficient. This process will cost extra ($25). We will also not be able to provide an

exact cost for the parts until they are determined. Would you still like this service?

IF no

THEN return to menu

ELSE

SET extra costs & flag unknown parts in class repairService

END IF

SET parts in need of repair and individual costs in class repairService

If radio repair was called:

PRINT You have selected Radio Repair.

What is the issue with your radio? If you are not sure, type Unknown.

INPUT issue or Unknown

SET radio repair need in class repairService

If paint job was called

PRINT You have selected Paint Job.

Enter the paint color desired on your car.

INPUT paint color

SET color in repairService

If tire replacement was called

PRINT You have selected Tire Replacement.

Enter the type of tire you would like installed into your car. If you are unsure what type of tire you need, type Unknown

INPUT type of tire or Unknown

IF Unknown

THEN PRINT The repairman will need to evaluate the vehicle, and then leave and come back

with the correct tire(s). This process will cost extra ($15). Would you still like this service?

IF no

THEN return to menu

ELSE

SET extra costs & flag unknown parts in class repairService

END IF

PRINT How many tires do you need (10 maximum)?

INPUT number

SET tire part, amount, and individual costs in repairService

If other replacements was called

PRINT You have selected Other Replacements.

What part(s) do you need replaced in your car? Separate multiple parts with a comma (10 maximum).

INPUT parts

SET parts and individual costs in repairService

If improvements was called

PRINT You have selected Improvements.

Due to the ambiguity of this service, you will not be able to schedule an appointment until we get in contact with you to confirm the details of your requests. What kinds of improvements would you like for your car?

INPUT desired improvements

SET details, flag unknown parts, and flag to hold off appointment in repairService

If refuel was called

PRINT You have selected Refuel.

What type of fuel do you need for your car? If you are not sure, type Unknown.

INPUT fuel type or Unknown

SET details in repairService

If other services was called

PRINT You have selected Other Type of Service.

Due to the ambiguity of this service, you will not be able to schedule an appointment until we get in contact with you to confirm the details of your requests. What kinds of services do you require for your car?

INPUT other services

SET details, flag unknown parts, and flag to hold off appointment in repairService

END of service assessment

PRINT Please enter your email address.

INPUT email address

PRINT Please enter your phone number.

INPUT phone number

IF hold off appointment flag is true

THEN PRINT (all information that was input) Is the above information correct? If not, you are

free to type Back as many times as needed to correct any information. If correct, press Enter.

INPUT enter

PRINT Thank you for the information. We will contact you within a few days for more

information.

OUTPUT all information that was input into a .txt file

END PROGRAM

END IF

PRINT Please enter your home address.

INPUT home address

PRINT Please enter a date you would like the repair

man to come. The date must be within a year from today and the day must not be higher than the 28th. Enter it in this format:

MM/DD/YEAR (Examples: 12/04/2020, 05/20/2021)

INPUT date

PRINT Please enter the time that works best for you. The time must be after 7:00 AM and before 6

PM Enter it in this format: HH:MM A/PM (Examples: 10:30 AM, 04:00 PM)

INPUT time

PRINT (all information that was input) Is the above information correct? If not, you are

free to type Back as many times as needed to correct any information. If correct, type Yes.

INPUT yes

PRINT Thank you for the information. A repairman should be there at the selected date and time. If any changes occur beforehand, we will contact you to let you know.

END PROGRAM