



# CODE LEVELING



PROVE OF LEARNING

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# RULE FOR THIS GAME GIVEN BY THE SYSTEM

⇒ TEST THE CODE FOR EDGE CASES AND WRITE UNIT  
TEST FOR EACH FUNCTION

⇒ THE CODE SHOULD BE CLEANED UP AND OPTIMISED  
WITH GOOD NAMING CONVENTIONS

⇒ ONLINE OUTSOURCING OF THE CODE IS PROHIBITED, I  
SHOULD SEE JUST YOUR THOUGHT PROCESS IN THE  
CODE NOT OUR UNCLES OWN



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# MULTI FUEL DISPENSER SYSTEM (MFDS)



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## Background

Digital dispensers deliver different types of petroleum products such as Petrol, Diesel. e.t.c

Each product has its own price per liter, and customers may choose to buy either by specifying the number of liters or by specifying the amount of money (₦) they want to spend.

In this project, you are required to simulate a Multi-Fuel Dispenser System (MFDS) that handles these operations using programming logic.



## Main Features:

1. Display available fuels and their prices per liter.
2. Allow the user to:
  - Choose fuel type.
  - Enter either:
    - Liters to buy(1 – 50 Liters), or
    - Amount (₦) to spend(must be  
above the price of a liter)

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## Main Features:

3. Calculate:
  - The total cost or total liters  
(depending on input).
4. Record transactions.
5. Generate a simple receipt.

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## APPLICATION SAMPLE

Welcome to GBeda Station !

Available petroleum

1. Buy Petroleum
2. Show Transaction History

Enter operation: 1

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## Available petroleum

- |    |          |   |             |
|----|----------|---|-------------|
| 1. | Petrol   | ⇒ | 650 / Liter |
| 2. | Diesel   | ⇒ | 720 /Liter  |
| 3. | Kerosene | ⇒ | 550 /Liter  |
| 4. | Gas      | ⇒ | 480 /Liter  |



Enter operation: **3**

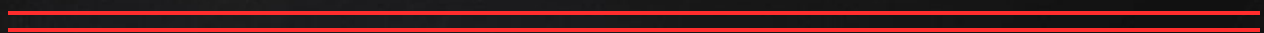
Liter or Amount: **amount**

How much Kerosene are you buying (550/L): **400**

Amount must be above a liter price !!!

How much Kerosene are you buying (550/L): **1100**

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## Customers Transaction Receipt

=====

= Product : Kerosene =

= Amount : #1100 =

= Liters : 2L =

= Thank you For your Petronage =

=====

Saving Transaction History.....

Welcome to GBeda Station !

Available petroleum

1. Buy Petroleum
2. Show Transaction History

Enter operation: 1

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## Available petroleum

- |    |          |   |             |
|----|----------|---|-------------|
| 1. | Petrol   | ⇒ | 650 / Liter |
| 2. | Diesel   | ⇒ | 720 /Liter  |
| 3. | Kerosene | ⇒ | 550 /Liter  |
| 4. | Gas      | ⇒ | 480 /Liter  |



Enter operation: 4

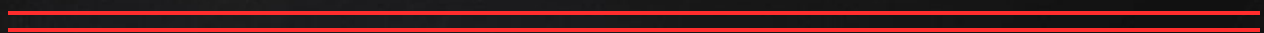
Liter or Amount: liter

How Many Liters of gas are you buying (480/L): -9

Liters must be between 1 – 50 !!!

How Many Liters of gas are you buying (480/L): 5

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## Customers Transaction Receipt

=====

= Product : Gas =

= Amount : #2400 =

= Liters : 5L =

= Thank you For your Petronage =

=====

Saving Transaction History.....

Welcome to GBeda Station !

Available petroleum

1. Buy Petroleum
2. Show Transaction History

Enter operation: 2



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## All Transactions

```
=====
=   Product      : Kerosene      =
=   Amount       : #1100         =
=   Liters       : 2L            =
=   Date         : 19/10/2025    =
=====
```

```
=====
=   Product : Gas                =
=   Amount  : #2400              =
=   Liters   : 5L                =
=   Date    : 19/10/2025        =
=====
```

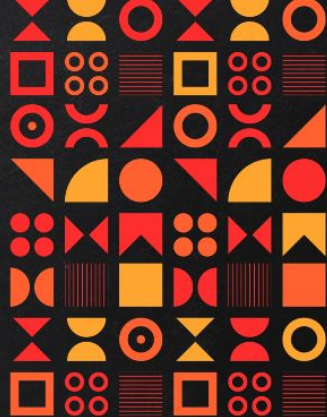
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THANKS!

Hope that was fun?



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