

2347134_LAB3

August 9, 2023

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[ ]: # main.py
import encoder

# Provide input
name = input("Enter the word to generate QR code: ")
encoded_result = encoder.EncodeQR(name)
print('The word:',name)
print("Encoded result:", encoded_result)
```

The word: Hi

Encoded result: 10000000010010000100000001101001

```
[ ]: class InventoryManagementSystem:
    def __init__(self, product_name, category, quantity, price,
        ↪reorder_threshold):
        self.product_name = product_name
        self.category = category
        self.quantity = quantity
        self.price = price
        self.reorder_threshold = reorder_threshold

    def update_price(self, new_price):
        self.price = new_price
        print(f"Updated price of {self.product_name} to {self.price}")

    def update_quantity(self, new_quantity):
        self.quantity = new_quantity
        print(f"Updated quantity of {self.product_name} to {self.quantity}")

    def check_reorder_status(self):
        if self.quantity <= self.reorder_threshold:
            print(f"Reorder required for {self.product_name}")
        else:
            print(f"No reorder required for {self.product_name}")

class PerishableProduct(InventoryManagementSystem):
```

```

    def __init__(self, product_name, category, quantity, price,
↳reorder_threshold, expiration_date):
        super().__init__(product_name, category, quantity, price,
↳reorder_threshold)
        self.expiration_date = expiration_date

    def check_expiry_status(self):
        if self.expiration_date < "2023-08-01": # Example date for
↳demonstration
            print(f"{self.product_name} has expired!")
        else:
            print(f"{self.product_name} is still within its shelf life.")

# Create objects
product1 = InventoryManagementSystem("Widget A", "Electronics", 100, 29.99, 20)
product2 = PerishableProduct("Milk", "Dairy", 50, 2.99, 10, "2023-08-15")

# Call methods
product1.update_price(34.99)
product1.update_quantity(80)
product1.check_reorder_status()

product2.update_price(3.49)
product2.check_expiry_status()

```

Updated price of Widget A to 34.99
 Updated quantity of Widget A to 80
 No reorder required for Widget A
 Updated price of Milk to 3.49
 Milk is still within its shelf life.