## MEDICAL INVENTORY MANAGEMENT

## **CODING:**

```
import ison
import os
INVENTORY FILE = "inventory.json"
def load inventory():
  if os.path.exists(INVENTORY FILE):
    with open(INVENTORY FILE, 'r') as f:
       return json.load(f)
  return {}
def save inventory(inventory):
  with open(INVENTORY FILE, 'w') as f:
    json.dump(inventory, f, indent=4)
def add medicine(inventory):
  med id = input("Enter medicine ID: ")
  if med id in inventory:
    print("Medicine ID already exists.")
    return
  name = input("Enter medicine name: ")
  quantity = int(input("Enter quantity: "))
  expiry = input("Enter expiry date (YYYY-MM-DD): ")
  inventory[med id] = {
     "name": name,
    "quantity": quantity,
    "expiry": expiry
  print("Medicine added successfully.")
def view inventory(inventory):
  if not inventory:
    print("Inventory is empty.")
```

```
return
  print("\n--- Medical Inventory ---")
  for med id, details in inventory.items():
    print(f"ID: {med id}")
    print(f" Name: {details['name']}")
    print(f" Quantity: {details['quantity']}")
    print(f" Expiry: {details['expiry']}")
    print("----")
def update quantity(inventory):
  med id = input("Enter medicine ID to update: ")
  if med id not in inventory:
    print("Medicine ID not found.")
    return
  new qty = int(input("Enter new quantity: "))
  inventory[med id]["quantity"] = new qty
  print("Quantity updated.")
def delete medicine(inventory):
  med id = input("Enter medicine ID to delete: ")
  if med id in inventory:
    del inventory[med id]
    print("Medicine deleted.")
  else:
    print("Medicine ID not found.")
def search medicine(inventory):
  search name = input("Enter medicine name to search: ").lower()
  found = False
  for med id, details in inventory.items():
    if search name in details["name"].lower():
       print(f'ID: {med id} | Name: {details['name']} | Qty:
{details['quantity']} | Expiry: {details['expiry']}")
       found = True
  if not found:
    print("No matching medicine found.")
def main():
  inventory = load inventory()
```

```
while True:
     print("\n--- Medical Inventory Menu ---")
     print("1. Add Medicine")
     print("2. View Inventory")
     print("3. Update Quantity")
     print("4. Delete Medicine")
     print("5. Search Medicine")
     print("6. Exit")
     choice = input("Enter your choice (1-6): ")
     if choice == '1':
       add medicine(inventory)
     elif choice == '2':
       view inventory(inventory)
     elif choice == '3':
       update quantity(inventory)
     elif choice == '4':
       delete medicine(inventory)
     elif choice == '5':
       search_medicine(inventory)
     elif choice == '6':
       save inventory(inventory)
       print("Exiting... Inventory saved.")
       break
     else:
       print("Invalid choice. Please try again.")
if name == " main ":
  main()
```

## **OUTPUT:**

- 1. Add Medicine
- 2. View Inventory
- 3. Update Quantity
- 4. Delete Medicine
- 5. Search Medicine
- 6. Exit

Enter your choice (1-6): 1

Enter medicine ID:3pl

Enter medicine name:paracetamol

Enter quantity:100

Enter expiry date (YYYY-MM-DD):2026-11-14

Medicine added successfully.

Enter your choice (1-6): 2

Medicine ID:3pl

Name:paracetamol

Quantity:100

Expiry date (YYYY-MM-DD):2026-11-14

Enter your choice (1-6): 3

Enter medicine ID to update:30

Enter new quantity:200

Quantity updated.

Enter your choice (1-6): 5

Enter medicine name to search: Paracetamol

Medicine ID:3pl

Name:paracetamol

Quantity:100

Expiry date (YYYY-MM-DD):2026-11-14

Enter your choice (1-6): 4

Enter medicine ID to delete:30

Medicine deleted.