ASSIGNMENT NO: 4 (B)

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Roll No : 26 Batch : TE - B2

PROBLEM STATEMENT:

Database Connectivity:

Write a program to implement Mongo DB database connectivity with any front end language to implement Database navigation operations(add, delete, edit etc.)

Program:

```
from pymongo import MongoClient
# Establish connection to MongoDB
client = MongoClient("mongodb://localhost:27017/")
db = client["demo db"]
employees = db["employees"]
# Menu for CRUD operations
def menu():
 print("\n1. Add Employee\n2. Edit Employee\n3. Delete Employee\n4. View All Employees\n5.
 return input("Select an option: ")
# Add employee
def add employee():
 name = input("Enter name: ")
 dept = input("Enter department: ")
 salary = float(input("Enter salary: "))
 employee = {"name": name, "department": dept, "salary": salary}
 employees.insert one(employee)
 print("Employee added successfully!")
# Edit employee
def edit employee():
 emp id = input("Enter employee ID to edit: ") # MongoDB ObjectId is string-based
 name = input("Enter new name: ")
 dept = input("Enter new department: ")
 salary = float(input("Enter new salary: "))
 employees.update_one({"_id": emp_id}, {"$set": {"name": name, "department": dept, "salary":
salary}})
```

```
print("Employee updated successfully!")
# Delete employee
def delete_employee():
  emp_id = input("Enter employee ID to delete: ")
  employees.delete_one({"_id": emp_id})
  print("Employee deleted successfully!")
# View all employees
def view employees():
 for emp in employees.find():
    print(emp)
# Main loop
while True:
  option = menu()
  if option == "1":
    add employee()
  elif option == "2":
    edit employee()
  elif option == "3":
    delete_employee()
  elif option == "4":
    view employees()
  elif option == "5":
    break
  else:
    print("Invalid option! Please try again.")
```

Terminal Output:

- 1. Add Employee
- 2. Edit Employee
- 3. Delete Employee
- 4. View All Employees
- 5. Exit

Select an option: 1 Enter name: Ronak Enter department: IT Enter salary: 40000

Employee added successfully!

```
    Add Employee
    Edit Employee
    View All Employees
    Exit
    Select an option: 4
    '_id': ObjectId('6711211a9a04cfb3730c4d50'), 'name': 'Ronak', 'department': 'IT', 'salary': 40000.0}
    Add Employee
    Edit Employee
    Delete Employee
    View All Employees
    Exit
    Select an option: 5
```

Database Output:
