Rupesh	Dhar	me
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Assignment 12

	Title: Databare connectivity
	problem:
	Write a program to implement
	mongons connectivity with any frontend
	to implement add, update, delete etc.
·	Objectives:
	· Understand concept of connectivity
1	in python and mongodh database.
	understand now to implement
	CRUP operations.
	Theory:
	mongodb is document oriented, NasaL
	database solution that provides great
	scalability and flexibility doing with
١.	powerful querying system.
	with mongodb and python, you can
	denslob ward those of gatopars
	applications quickly
	pymongo pacage of python can by
	used to establish connection.
	Teachar's Signature

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Code:
# Rupesh Dharme
# 31124
# Assignment 12
# DBSL
from pymongo import MongoClient
class Connect:
   def __init__(self):
        self.client =
MongoClient("mongodb://localhost:27017/?readPreference=primary&appname=MongoDB%20Compass&directConnec
tion=true&ssl=false")
        self.db = self.client['assignment12']
        self.collection= self.db['states']
    def create(self):
        state = input("Enter State: ")
        capital = input("Enter capital: ")
        new_post = {
            "state": state,
            "capital": capital,
        self.collection.insert_one(new_post)
    def read(self):
        response = self.collection.find()
        for record in response:
            print(record)
    def update(self):
        state = input("Enter State: ")
        capital = input("Enter capital: ")
        prev_record = {'state': state}
        new_record = {
            "state": state,
            "capital":capital,
        }
        response = self.collection.update_one(prev_record, {'$set': new_record})
    def delete(self):
        state = input("Enter State: ")
        record = {'state': state}
        response = self.collection.delete_one(record)
if __name__ == '__main__':
    connection = Connect()
    while True:
        option=int(input("What to perform?\n1. Create (Insert)\n2. Read (Select)\n3. Update
(Update)\n4. Delete (Delete)\n5. Exit\n"))
        if option==1:
            connection.create()
            print("Document created")
        elif option==2:
            connection.read()
            print("Data read")
        elif option==3:
            connection.update()
            print("Document updated")
        elif option==4:
            connection.delete()
            print("Document deleted")
        else:
```

print("Thank you") break connection.client.close()

3. Update (Update)

Output: PS C:\Users\HP\Rupesh\PICT\TE SEM 1\DBS Lab\Assignment 12> & "C:/Program Files/Python39/python.exe" "c:/Users/HP/Rupesh/PICT/TE SEM 1/DBS Lab/Assignment 12/31124_Rupesh_Dharme_DBSL_Assignment_12.py" What to perform? 1. Create (Insert) 2. Read (Select) 3. Update (Update) 4. Delete (Delete) 5. Exit 2 {'_id': ObjectId('619f15db63836ed04049349f'), 'state': 'Maharashtra', 'capital': 'Mumbai'} Data read What to perform? 1. Create (Insert) 2. Read (Select) 3. Update (Update) 4. Delete (Delete) 5. Exit Enter State: MP Enter capital: Bhopal Document created What to perform? 1. Create (Insert) 2. Read (Select) 3. Update (Update) 4. Delete (Delete) 5. Exit 2 {'_id': ObjectId('619f15db63836ed04049349f'), 'state': 'Maharashtra', 'capital': 'Mumbai'} {'_id': ObjectId('61a12483f0ab95be0728b7e6'), 'state': 'MP', 'capital': 'Bhopal'} Data read What to perform? 1. Create (Insert) 2. Read (Select)

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4. Delete (Delete)
5. Exit
3
Enter State: MP
Enter capital: Nagpur
Document updated
What to perform?
1. Create (Insert)
2. Read (Select)
3. Update (Update)
4. Delete (Delete)
5. Exit
2
{'_id': ObjectId('619f15db63836ed04049349f'), 'state': 'Maharashtra', 'capital': 'Mumbai'}
{'_id': ObjectId('61a12483f0ab95be0728b7e6'), 'state': 'MP', 'capital': 'Nagpur'}
Data read
What to perform?
1. Create (Insert)
2. Read (Select)
3. Update (Update)
4. Delete (Delete)
5. Exit
4
Enter State: MP
Document deleted
What to perform?
1. Create (Insert)
2. Read (Select)
3. Update (Update)
4. Delete (Delete)
5. Exit
{'_id': ObjectId('619f15db63836ed04049349f'), 'state': 'Maharashtra', 'capital': 'Mumbai'}
Data read
What to perform?
1. Create (Insert)
2. Read (Select)
3. Update (Update)
4. Delete (Delete)
5. Exit
5
```

