# C1

## Problem Statement:

Implement MongoDB connectivity with Python/PHP/Java and perform CRUD operations (add, delete, edit). Example code for Python (pymongo), PHP (mongodb driver), Java (MongoDB driver).

## Code:

```
# C1: MongoDB connectivity examples

# Python (pymongo)
from pymongo import MongoClient
client = MongoClient("mongodb://localhost:27017/")
db = client['mydb']
coll = db['employee']
# Create
coll.insert_one({"emp_id":1, "Name":{"FName":"Amit","LName":"Kumar"}, "Company_name":"TCS"})
# Read
for doc in coll.find({"Company_name":"TCS"}):
    print(doc)
# Update
coll.update_one({"emp_id":1}, {"$set": {"Company_name":"Infosys"}})
# Delete
coll.delete_one({"emp_id":1})

# PHP (using mongodb/mongodb via Composer)
<?php
require 'vendor/autoload.php';
$client = new MongoDB\Client("mongodb://localhost:27017");
$collection = $client->mydb->employee;
$collection->insertOne(['emp_id'=>1,'Name'=>['FName'=>'Amit','LName'=>'K']]);
?>

# Java (MongoDB driver)
import com.mongodb.client.*;
import org.bson.Document;
MongoClient mongo = MongoClients.create("mongodb://localhost:27017");
MongoDatabase db = mongo.getDatabase("mydb");
MongoCollection<Document> coll = db.getCollection("employee");
coll.insertOne(new Document("emp_id",1).append("Name", new
Document("FName","Amit").append("LName","K")));
```