# Practical-12

**Problem Statement** - Write a program to implement MongoDB database connectivity with PHP/PYTHON/JAVA implement database navigation operations using JDBC/ODBC.

# Code:

import java.net.UnknownHostException; import java.util.Scanner;

import com.mongodb.\*;

public class DatabaseConnectivity { private static void choice\_input() {

System.out.println("\n1. Insert data into database"); System.out.println("2. Update database documents"); System.out.println("3. Delete database documents"); System.out.println("4. Show database collections"); System.out.println("5. Exit");

}

public static void main(String[] args) { String key, value;

Scanner scanner = new Scanner(System.in); int choice;

try {

Mongo mongo = new Mongo("localhost", 27017); DB db = mongo.getDB("myDb");

DBCollection collection = db.getCollection("dummyColl");

do {

choice\_input();

System.out.println("Enter your choice: "); choice = scanner.nextInt();

switch (choice) {

case 1: // Insert data

BasicDBObject document = new BasicDBObject(); String ch;

do {

System.out.println("Enter key: "); key = scanner.next(); System.out.println("Enter value: ");

value = scanner.next(); document.put(key, value);

System.out.println("Do you want to enter more (y/n)? "); ch = scanner.next();

} while (!ch.equals("n")); collection.insert(document); break;

case 2: // Update data

BasicDBObject searchObj = new BasicDBObject(); System.out.println("Enter searched key: ");

key = scanner.next(); System.out.println("Enter searched value: "); value = scanner.next();

searchObj.put(key, value);

BasicDBObject newObj = new BasicDBObject(); System.out.println("Enter new key: ");

key = scanner.next(); System.out.println("Enter new value: "); value = scanner.next();

newObj.put(key, value); collection.update(searchObj, newObj); break;

case 3: // Delete data System.out.println("Enter removable key: "); key = scanner.next();

System.out.println("Enter removable value: "); value = scanner.next();

BasicDBObject removableObj = new BasicDBObject(); removableObj.put(key, value); collection.remove(removableObj);

break;

case 4: // Show collection

DBCursor cursorDoc = collection.find(); while (cursorDoc.hasNext()) {

System.out.println(cursorDoc.next());

}

break;

case 5: // Exit System.exit(0); break;

}

} while (choice != 6);

} catch (UnknownHostException | MongoException e) { e.printStackTrace();

}

}



