**Name : Kashid Raj Shivaji**

**Roll No: 13215**

**TE ‘B’**

**Practical No: 12**

**Please enter a MongoDB connection string (Default: mongodb://localhost/):**

**Current Mongosh Log ID: 634a55b2a7a6a20fd84cc90c**

**Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.6.0**

**Using MongoDB: 6.0.2**

**Using Mongosh: 1.6.0**

**For mongosh info see: https://docs.mongodb.com/mongodb-shell/**

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**The server generated these startup warnings when booting**

**2022-10-14T16:56:06.032+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted**

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**Enable MongoDB's free cloud-based monitoring service, which will then receive and display**

**metrics about your deployment (disk utilization, CPU, operation statistics, etc).**

**The monitoring data will be available on a MongoDB website with a unique URL accessible to you**

**and anyone you share the URL with. MongoDB may use this information to make product**

**improvements and to suggest MongoDB products and deployment options to you.**

**To enable free monitoring, run the following command: db.enableFreeMonitoring()**

**To permanently disable this reminder, run the following command: db.disableFreeMonitoring()**

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**test> show dbs**

**admin 40.00 KiB**

**book 72.00 KiB**

**config 108.00 KiB**

**emp 72.00 KiB**

**local 40.00 KiB**

**test> use bill**

**switched to db bill**

**bill> db.pay.insert({Cust\_ID:"A123",Product:"Milk",Amount:40,Status:"P"});**

**DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("634a5a02d6339bf574ca8f09") }**

**}**

**bill> db.pay.insert({Cust\_ID:"A123",Product:"Parle\_G",Amount:50,Status:"NP"});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("634a5a24d6339bf574ca8f0a") }**

**}**

**bill> db.pay.insert({Cust\_ID:"A123",Product:"Lays Chips",Amount:40,Status:"P"});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("634a5a41d6339bf574ca8f0b") }**

**}**

**bill> db.pay.insert({Cust\_ID:"B123",Product:"Mentos",Amount:10,Status:"P"});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("634a5a54d6339bf574ca8f0c") }**

**}**

**bill> db.pay.insert({Cust\_ID:"B123",Product:"Maggie",Amount:60,Status:"NP"});**

**{**

**acknowledged: true,**

**insertedIds: { '0': ObjectId("634a5a79d6339bf574ca8f0d") }**

**}**

**bill> db.pay.find()**

**[**

**{**

**\_id: ObjectId("634a5a02d6339bf574ca8f09"),**

**Cust\_ID: 'A123',**

**Product: 'Milk',**

**Amount: 40,**

**Status: 'P'**

**},**

**{**

**\_id: ObjectId("634a5a24d6339bf574ca8f0a"),**

**Cust\_ID: 'A123',**

**Product: 'Parle\_G',**

**Amount: 50,**

**Status: 'NP'**

**},**

**{**

**\_id: ObjectId("634a5a41d6339bf574ca8f0b"),**

**Cust\_ID: 'A123',**

**Product: 'Lays Chips',**

**Amount: 40,**

**Status: 'P'**

**},**

**{**

**\_id: ObjectId("634a5a54d6339bf574ca8f0c"),**

**Cust\_ID: 'B123',**

**Product: 'Mentos',**

**Amount: 10,**

**Status: 'P'**

**},**

**{**

**\_id: ObjectId("634a5a79d6339bf574ca8f0d"),**

**Cust\_ID: 'B123',**

**Product: 'Maggie',**

**Amount: 60,**

**Status: 'NP'**

**}**

**]**

**bill> db.pay.mapReduce(function(){emit(this.Cust\_ID,this.Amount);},function(key,values){return Array.sum(values)},{query:{"Status":"P"},out:"Bill\_Amount"})**

**DeprecationWarning: Collection.mapReduce() is deprecated. Use an aggregation instead.**

**See https://docs.mongodb.com/manual/core/map-reduce for details.**

**{ result: 'Bill\_Amount', ok: 1 }**

**bill> var mapFunc1=function(){emit(this.Cust\_ID,this.Amount);};**

**bill> var reduceFunc1=function(keyCustID,valuePrices){return Array.sum(valuePrices);};**

**bill> db.pay.mapReduce(mapFunc1,reduceFunc1,{out:"Map"})**

**{ result: 'Map', ok: 1 }**

**bill> db.Bill\_Amount.find()**

**[ { \_id: 'B123', value: 10 }, { \_id: 'A123', value: 80 } ]**

**bill> db.Map.find()**

**[ { \_id: 'A123', value: 130 }, { \_id: 'B123', value: 70 } ]**