Chit No: 17 SPPU DBMS LAB Create a collection Bank in MongoDB and insert few documents with fields (cust\_id, cust\_name, branch, balance) Write a MapReduce function to display balance in each branch of the bank

db.createCollection('Bank');

db.Bank.insertMany([

{ cust\_id: 1, cust\_name: "John Doe", branch: "Pune", balance: 5000 },

{ cust\_id: 2, cust\_name: "Jane Smith", branch: "Pune", balance: 7000 },

{ cust\_id: 3, cust\_name: "Michael Johnson", branch: "Mumbai", balance: 3000 },

{ cust\_id: 4, cust\_name: "Emily Davis", branch: "Mumbai", balance: 2500 },

{ cust\_id: 5, cust\_name: "David Brown", branch: "Surat", balance: 10000 }

]);

// Map function to emit branch and balance

var mapFunction = function() {

emit(this.branch, this.balance);

};

// Reduce function to sum balances for each branch

var reduceFunction = function(key, values) {

return Array.sum(values);

};

// Execute the MapReduce function

db.Bank.mapReduce(mapFunction, reduceFunction, { out: "branch\_balances" });

db.branch\_balances.find().pretty();