BDA LAB 2

DATABASE: COMPANY

Collection-Emp and Dept

1. Creation and Insertion in 3 different ways-insert, update and save.
   Updating using upsert=true
   have updated a field using upsert=true

```
db.createCollection("Employee")
db.createCollection("Department")
db.Employee.insert({_id:1,Empname:"Ramesh",Empdesgn:"Manager",Empage:40,Empdept:"ABC",Empmail:"Ramesh@somemail.com"})
db.Employee.insertMany([
{_id:2,Empname:"Mahesh",Empdesgn:"Fresher",Empage:20,Empdept:"DEF",Empmail:"Mahesh@somemail.com"},
{_id:3,Empname:"Suresh",Empdesgn:"Engineer",Empage:40,Empdept:"PQR",Empmail:"Suresh@somemail.com"}])
db.Employee.save({_id:4,Empname:"Givinda",Empdesgn:"HR",Empage:34,Empdept:"XYZ",Empmail:"Govinda@somemail.com"})
db.Employee.update({_id:5,Empname:"Pradeep",Empdesgn:"Director",Empage:48,Empmail:"Pradeep@somemail.com"},{$set:{Empdept:"HEAD"}},{upsert:true})
```

```
db.Department.insert({_id:1,D_num:1001,D_name:"ABC",Depthead:"Rahul"})
db.Department.update({_id:2,D_num:1002,D_name:"DEF"},{$set:{Depthead:"Rohith"}},{upsert:true})
db.Department.save({_id:3,D_num:1003,D_name:"HR",Depthead:"Mukund"})
db.Department.insertMany([
{_id:4,D_num:1004,D_name:"HEAD",Depthead:"Virat"},
{_id:5,D_num:1007,D_name:"SALES",Depthead:"Salman"}])
```

2. Selecting all fields in collections

Employee 0.002 sec.

	_id	Empname	Empdesgn	Empage	Empdept	Empmail
1	1.0	Ramesh	Manager	40.0	ABC	Ramesh@somemail.com
2	2.0	Mahesh	Fresher	20.0	DEF	Mahesh@somemail.com
3	3.0	Suresh	Engineer	40.0	PQR	Suresh@somemail.com
4	4.0	Givinda	HR	34.0	XYZ	Govinda@somemail.com
5	5.0	Pradeep	Director	48.0	HEAD	Pradeep@somemail.com

Department 0.001 sec.

	_id	D_num	D_name	Depthead
1	1.0	1001.0	ABC	Rahul
2	2.0	1002.0	DEF	Rohith
3	3.0	1003.0	HR	Mukund
4	4.0	1004.0	HEAD	Virat
5	5.0	1007.0	SALES	Salman

3. Displaying department number and dept head name which is greater thn 1000 and less than 1005.

```
db.Dept.find({D_num:{"$gte":1000,"$lte":1005}},{Depthead:true,D_name:true})
```

Dept 🕐 0.002 sec.

	_id	D_name	Depthead
1	1.0	ABC	Rahul
2	2.0	DEF	Rohith
3	3.0	HR	Mukund
4	4.0	HEAD	Virat

4. Displaying all employees whose name starts with R.
   since there was only employee with R. the query returned only one output.

```
db.Employee.find({Empname:{$regex:"^R"}})
```

Employee 🕐 0.001 sec.

	_id	Empname	Empdesgn	Empage	Empdept	Empmail
1	1.0	Ramesh	Manager	40.0	ABC	Ramesh@somemail.com