NAME: Mayank Kakani

USN:1NT18IS090

SESSION-1

1. Installing Packages

gcc,g++,git,vim,terminator,openjdk-8-jdk,openjdk-8-jre

- 1. Installing gcc
 - sudo apt install gcc
- 2. Installing g++

sudo apt install g++

3. Installing git

sudo apt install git

- 4. Installing vim
 - sudo apt install vim
- 5. Installing terminator

sudo apt install terminator

6. Installing jdk

sudo apt install openjdk-8-jdk

7. Installing OpenJdk-8-Jre:

sudo apt install openjdk-8-jre sudo apt install jre -version

2. Mongodb

Installing mongoDB community edition

Import the public key used by the package management system.

wget -qO - https://www.mongodb.org/static/pgp/server-4.4.asc | sudo apt-key add -

Create a list file for MongoDB.

```
echo "deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list
```

Reload local package database.

sudo apt-get update

Install the MongoDB packages.

sudo apt-get install -y mongodb-org

To check mongo is properly installed and working

Mongo

ISON ARRAY

JSON OBJECT

```
{
    "employee1": {
        "firstName": "Mayank",
        "lastname": "Kakani",
```

```
"age": 21
},
"employee2": {
    "firstName": "Alice",
    "lastName": "Kakani",
    "age": 22
},
```

SESSION 2

NAME:Ma	vank	Kal	kani
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USN:1NT18IS090

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Create	a	uatavase	•

use st

Create collections

1.default approach

db.st.insert({name:"Mayank Kakani",Usn:90,State:"UP"})

db.st.insert({name:"mongodb",tags:["database","nosql","distributed DB"],des:"mongodb"})

2. Using a function call

db.createCollection("employee",{size:300000,capped:true,max:1000});
db.employee.insert({name:"emp1",tags:["mk","197","ds"],des:"student
"})

Displaying the collection

db.employee.find().pretty();