

Program 03:

Server.java

```
package serv;

import org.eclipse.californium.core.CoapResource;
import org.eclipse.californium.core.CoapServer;
import org.eclipse.californium.core.server.resources.CoapExchange;

public class server1 extends CoapResource {

    int i=90;

    server1(String str){
        super(str);
    }

    @Override
    public void handleGET(CoapExchange exchange) {
        exchange.respond("TEMPT; "+i++);
    }

    public static void main(String[]args) {
        CoapServer cs=new CoapServer();
        cs.add(new server1("TEMPT"));
        cs.start();
    }
}
```

Coap.java

```
package serv;

import org.eclipse.californium.core.CoapClient;
import org.eclipse.californium.core.CoapResponse;

public class client {

    public static void main(String[]args) {
```

```

CoapClient cc=new CoapClient("coap://127.0.0.1/TEMPT");
String txt;
try {
    for (int i=0;i<10;i++) {
        CoapResponse cr= cc.get();
        txt=cr.getResponseText();
        System.out.println(txt);
        Thread.sleep(1000);
    }

} catch (Exception e) {
    e.printStackTrace();
}
}
}

```

Program 01

```

package program01;

import java.util.HashMap;
import java.util.Map;
import java.util.Scanner;
import java.util.TreeMap;

public class program {
    public static void main(String[]args) {
        Scanner sc=new Scanner(System.in);

```

```

Map<String,String> hmap=new HashMap<String,String>();
Map<String,String> tmap=new TreeMap<String,String>();
int ch;
String State,Capital;
while(true) {
    System.out.println("1.add 2.displayHashmap 3.displayTreemap ");
    System.out.println("enter ur choice");
    ch=sc.nextInt();
    switch(ch) {
    case 1:
        System.out.println("enter st and cpt");
        State=sc.next();
        Capital=sc.next();
        hmap.put(State, Capital);
        tmap.put(State, Capital);
        break;
    case 2:
        for(Map.Entry<String,String> e:hmap.entrySet()) {

            System.out.println("State:"+e.getKey()+" , Capital:"+e.getValue());

        }break;
    case 3:
        for(Map.Entry<String,String> e:tmap.entrySet()) {
            System.out.println("State:"+e.getKey()+" , Capital:"+e.getValue());

        }break;
    }
}
}

```

Program02

Create 3 class 1.student

2.employee

3.final

Student.java

```
package program02;

public class Stydent {
    int usn;
    String name;
    public int getUsn() {
        return usn;
    }
    public void setUsn(int usn) {
        this.usn = usn;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    @Override
    public String toString() {
        return "Stydent [usn=" + usn + ", name=" + name + "]";
    }
    public Stydent(int usn, String name) {
        super();
        this.usn = usn;
        this.name = name;
    }
}
```

Employee.java

```
package program02;

public class Employee {
    int id;
    String name;
    public int getId() {
        return id;
    }
    public void setId(int id) {
        this.id = id;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
}
```

```

@Override
public String toString() {
    return "Employee [id=" + id + ", name=" + name + "]";
}
public Employee(int id, String name) {
    super();
    this.id = id;
    this.name = name;
}
}

```

Mani class.java

```
package program02;
```

```
import java.util.ArrayList;
```

```
import java.util.LinkedList;
```

```
import java.util.Scanner;
```

```
public class program02 {
```

```
    public static void main(String[]args) {
```

```
        ArrayList<Stydent> al=new ArrayList<Stydent>();
```

```
        LinkedList<Employee> ll=new LinkedList<Employee>();
```

```
        Scanner sc=new Scanner(System.in);
```

```
        int ch,id;
```

```
        String name;
```

```
        while(true) {
```

```
            System.out.println("1.add student 2.remove student 3.display arraylist  
4.add employee to front 5.add emp to last 6.rem emp from front 7. rem emp from last 8.display ");
```

```
            System.out.println("enter ur choice");
```

```
            ch=sc.nextInt();
```

```
            switch(ch) {
```

```
                case 1:
```

```
                    System.out.println("enter usn and name");
```

```
                    id=sc.nextInt();
```

```
name=sc.next();  
al.add(new Stydent(id,name));  
break;
```

case 2:

```
System.out.println("remove student");  
id=sc.nextInt();  
al.remove(id);  
break;
```

case 3:

```
for(Stydent s:al) {  
    System.out.println(s.toString());  
  
}  
break;
```

case 4:

```
System.out.println("enter id and name");  
id=sc.nextInt();  
name=sc.next();  
ll.addFirst(new Employee(id,name));  
break;
```

case 5:

```
System.out.println("enter id and name");  
id=sc.nextInt();  
name=sc.next();  
ll.addLast(new Employee(id,name));  
break;
```

case 6:

```
ll.removeFirst();  
break;
```

case 7:

```
ll.removeLast();
```

```

                break;
            case 8:
                for(Employee s1:ll) {
                    System.out.println(s1.toString());

                }
                break;
            }
        }
    }
}

```

Hibernate.Java

```
import java.util.List;
```

```
import java.util.Scanner;
```

```
import org.hibernate.Session;
```

```
import org.hibernate.SessionFactory;
```

```
import org.hibernate.Transaction;
```

```
import org.hibernate.boot.Metadata;
```

```
import org.hibernate.boot.MetadataSources;
```

```
import org.hibernate.boot.registry.StandardServiceRegistry;
```

```
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
```

```
public class Runner {
```

```
    public static void main(String[] args) {
```

```

Scanner sc = new Scanner(System.in);

StandardServiceRegistry ssr=new
StandardServiceRegistryBuilder().configure("hibernate.cfg.xml").build();

Metadata m=new MetadataSources().buildMetadata(ssr);

SessionFactory sf=m.buildSessionFactory();

String name,addr;

int id,ch;

student std = new student();

while(true) {

    Session s=sf.openSession();

    Transaction t=s.beginTransaction();

    System.out.println("1.insert,2.update,3.delete,4.display");

    System.out.println("enter ur choice");

    ch=sc.nextInt();

    switch(ch) {

        case 1:

            System.out.println("enter id ,name and address");

            id=sc.nextInt();

            name=sc.next();

            addr=sc.next();

            std.setld(id);

            std.setName(name);

            std.setAddr(addr);

            s.save(std);

            t.commit();

            break;

        case 2:

            System.out.println("enter id ,name and address");

            id=sc.nextInt();

            name=sc.next();

            addr=sc.next();

```



```
std.setId(id);
std.setName(name);
std.setAddr(addr);
s.saveOrUpdate(std);
t.commit();
break;
```

case 3:

```
System.out.println("enter id");
id=sc.nextInt();
std.setId(id);
s.delete(std);
t.commit();
break;
```

case 4:

```
List<student> l=s.createQuery("from student").list();
for(student ss:l) {
    System.out.println(ss.toString());
}
break;
```

}

}

}

}

Student.java

@Entity

@Table

public class student {

```

@Id
int id;

String name,addr;

public int getId() {
    return id;
}

public void setId(int id) {
    this.id = id;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getAddr() {
    return addr;
}

public void setAddr(String addr) {
    this.addr = addr;
}

@Override
public String toString() {
    return "student [id=" + id + ", name=" + name + ", addr=" + addr + "];"
}

}

```