

NAME - ANKITA SHAILLY

ROLL NO. -11

COURSE – BCA , SECTION – G

/*Q. WAP TO SHOW SYNCHRONIZED METHOD PROGRAMING. */

```
class Table{
    synchronized void printTable(int n){
        System.out.println("printing the table of "+n);
        for(int i=1;i<=5;i++){
            System.out.println(n*i);
            try{
                Thread.sleep(400);
            }catch(Exception e){
                System.out.println(e);}
        }
    }
}

class Thread1 extends Thread{
    Table t;
    Thread1(Table t){
        this.t=t;
    }
    public void run(){
        t.printTable(2);
    }
}

class Thread2 extends Thread{
```

```
Table t;

Thread2(Table t){
    this.t=t;
}

public void run(){
    t.printTable(10);
}
}

public class synchroniztion{
    public static void main(String args[]){
        Table obj = new Table();
        Thread1 t1=new Thread1(obj);
        Thread2 t2=new Thread2(obj);
        t1.start();
        t2.start();
    }
}
```

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```
C:\Users\HP\OneDrive\Documents\java>java synchroniztion
printing the table of 2
2
4
6
8
10
printing the table of 10
10
20
30
40
50
```

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/* Q.WAP IN JAVA SHOWING SOCKET PROGRAMMING . */

import java.net.*;

import java.io.*;

public class server {

 public static void main(String args[])

 throws Exception

 {

 ServerSocket ss=new ServerSocket(2222);

 Socket s=ss.accept();

 DataInputStream din=new DataInputStream(s.getInputStream());

 DataOutputStream dout= new DataOutputStream(s.getOutputStream());

 BufferedReader br= new BufferedReader(new InputStreamReader(System.in));

 String str="",str1="";

 while(!str.equals("stop")){

 str=din.readUTF();

 System.out.println("CLIENT : "+ str);

 str1=br.readLine();

 dout.writeUTF(str1);

 dout.flush();

 }

 din.close();

 s.close();

 ss.close();

 }

```
//CLIENT CLASS
```

```
import java.io.BufferedReader;
```

```
import java.io.DataInputStream;
```

```
import java.io.DataOutputStream;
```

```
import java.io.InputStreamReader;
```

```
import java.net.ServerSocket;
```

```
import java.net.Socket;
```

```
public class client {
```

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

```
        throws Exception
```

```
{
```

```
    Socket s=new Socket("localhost",2222);
```

```
    DataInputStream din=new DataInputStream(s.getInputStream());
```

```
    DataOutputStream dout= new DataOutputStream(s.getOutputStream());
```

```
    BufferedReader br= new BufferedReader(new InputStreamReader(System.in));
```

```
    String str="",str1="";
```

```
    while(!str.equals("stop")){
```

```
        str=br.readLine();
```

```
        dout.writeUTF(str1);
```

```
        dout.flush();
```

```
        str1=din.readUTF();
```

```
        System.out.println("SERVER : "+ str);
```

```
    }
```

```
    din.close();
```

```
    s.close();
```

```
}
```

```
}
```

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//SERVER

```
C:\Windows\System32\cmd.exe - java server
Microsoft Windows [Version 10.0.19045.3693]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP\OneDrive\Documents\java>javac server.java

C:\Users\HP\OneDrive\Documents\java>java server
CLIENT :
hehellohehef hi
CLIENT : hehellohehef hi
doing good
CLIENT : doing good
```

//CLIENT

```
C:\Windows\System32\cmd.exe - java client
Microsoft Windows [Version 10.0.19045.3693]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP\OneDrive\Documents\java>javac

C:\Users\HP\OneDrive\Documents\java>javac client.java

C:\Users\HP\OneDrive\Documents\java>java client
hello
SERVER : hello
how r u doing
SERVER : how r u doing
good
```

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/* Q. WAP IN JAVA USING ARRAYLIST, VECTOR , SET .*/

import java.util.*;

public class arraylist {

public static void main(String [] arg){

System.out.println("ARRAYLIST");

ArrayList list=new ArrayList();

list.add("hi");

list.add("hello");

list.add("bye");

System.out.println(list);

System.out.println(list.contains("bye"));

list.remove("hi");

System.out.println(list);

System.out.println(list.contains("b"));

list.clear();

System.out.println(list);

System.out.println("VECTOR");

Vector v=new Vector();

v.add("a");

v.add("b");

v.add("c");

System.out.println(v);

System.out.println("last element of the vector is "+v.firstElement());

System.out.println("SET");

```
System.out.println(v);  
Set s = new HashSet();  
s.add("c");  
s.add("c++");  
s.add("java");  
s.add("c++");  
System.out.println(s);  
}  
}
```


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```
.C:\Users\HP\OneDrive\Documents\java>java arraylist
ARRAYLIST
[hi, hello, bye]
true
[hello, bye]
false
[]
VECTOR
[a, b, c]
last element of the vector is a
SET
[a, b, c]
[c++, c, java]
```

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/* Q. WAP TO IMPLEMENT FRAME IN JAVA. */

import java.awt.*;

import java.awt.event.*;

public class loginad extends Frame implements ActionListener{

TextField n,p;

loginad(){

setLayout(null);

Label un=new Label("USERNAME :");

un.setBounds(80,40,100,30);

add(un);

n=new TextField();

n.setBounds(170,40,250,30);

add(n);

Label pw=new Label("PASSWORD :");

pw.setBounds(80,80,100,30);

add(pw);

p=new JPasswordField();

p.setBounds(170,80,250,30);

add(p);

JButton l=new JButton("Login");

l.setBounds(250,150,100,40);

l.addActionListener(this);

add(l);

JButton back=new JButton("Back");

```

        back.setBounds(80,200,80,20);

        back.addActionListener(this);

        add(back);

        setSize(600,300);

        setLocation(400,200);

        setVisible(true);
    }

    public void actionPerformed(ActionEvent e){

        String s=e.getActionCommand();

        if(s.equals("LOGIN")){

            setVisible(false);

        }

        else {

            OptionPane.showMessageDialog(null, "INVALID USERNAME OR PASSWORD PLEASE TYR
AGAIN");

        }

    }

    public static void main(String[] arg){

        new loginad();

    }

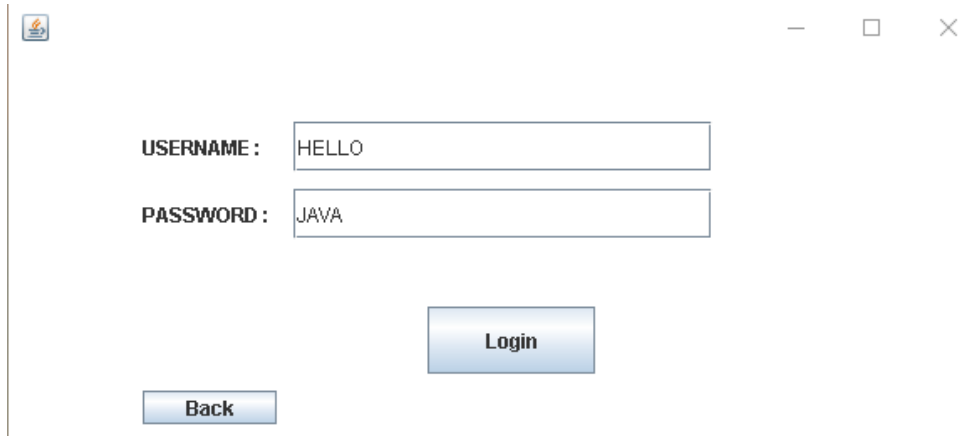
}

```

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— □ ×

USERNAME : HELLO

PASSWORD : JAVA

Login

Back