**1.Thread Synchronization**

package com.synchronization;

/\*

class Table

{

synchronized public void product(int n)

{

for (int i = 1; i <=5; i++)

{

System.out.println(n\*i);

}

}

}

class MyThread1 extends Thread

{

Table t;

MyThread1(Table t)

{

this.t=t;

}

public void run()

{

t.product(5);

}

}

class MyThread2 extends Thread

{

Table t;

MyThread2(Table t)

{

this.t=t;

}

public void run()

{

t.product(100);

}

}

public class TestSynchronization

{

public static void main(String[] args)

{

Table t=new Table();

MyThread1 m1=new MyThread1(t);

MyThread2 m2=new MyThread2(t);

m1.start();

m2.start();

}

}

\*/

class Table

{

public void product(int n)

{

synchronized(this)

{

for (int i = 1; i <=10; i++)

{

System.out.println(n\*i);

}

}

System.out.println("Hello");

System.out.println("Bye");

System.out.println("Hii ");

}

}

class MyThread1 extends Thread

{

Table t;

MyThread1(Table t)

{

this.t=t;

}

public void run()

{

t.product(5);

}

}

class MyThread2 extends Thread

{

Table t;

MyThread2(Table t)

{

this.t=t;

}

public void run()

{

t.product(100);

}

}

public class TestSynchronization

{

public static void main(String[] args)

{

Table t=new Table();

MyThread1 m1=new MyThread1(t);

MyThread2 m2=new MyThread2(t);

m2.start();

m1.start();

}

}

**2.InterThreadCommunication**

package com.synchronization;

/\*

class Table

{

synchronized public void product(int n)

{

for (int i = 1; i <=5; i++)

{

System.out.println(n\*i);

}

}

}

class MyThread1 extends Thread

{

Table t;

MyThread1(Table t)

{

this.t=t;

}

public void run()

{

t.product(5);

}

}

class MyThread2 extends Thread

{

Table t;

MyThread2(Table t)

{

this.t=t;

}

public void run()

{

t.product(100);

}

}

public class TestSynchronization

{

public static void main(String[] args)

{

Table t=new Table();

MyThread1 m1=new MyThread1(t);

MyThread2 m2=new MyThread2(t);

m1.start();

m2.start();

}

}

\*/

class Table

{

public void product(int n)

{

synchronized(this)

{

for (int i = 1; i <=10; i++)

{

System.out.println(n\*i);

}

}

System.out.println("Hello");

System.out.println("Bye");

System.out.println("Hii ");

}

}

class MyThread1 extends Thread

{

Table t;

MyThread1(Table t)

{

this.t=t;

}

public void run()

{

t.product(5);

}

}

class MyThread2 extends Thread

{

Table t;

MyThread2(Table t)

{

this.t=t;

}

public void run()

{

t.product(100);

}

}

public class TestSynchronization

{

public static void main(String[] args)

{

Table t=new Table();

MyThread1 m1=new MyThread1(t);

MyThread2 m2=new MyThread2(t);

m2.start();

m1.start();

}

}