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\* file : ThreadSynchronization.java

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\* description : Thread Sychronization during Multiplication

Table creation

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PROGRAM

package javalab;

import java.util.Scanner;

class MultiplicationTable{

synchronized void printMultiplicationTable(int number) {

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

System.out.println(i+"X"+number+"="+i\*number);

}

}

}

class MyThread1 extends Thread{

MultiplicationTable t ;

int number;

MyThread1(MultiplicationTable t,int number){

this.t=t;

this.number=number;

}

public void run() {

t.printMultiplicationTable(number);

}

}

class MyThread2 extends Thread{

MultiplicationTable t ;

int number;

MyThread2(MultiplicationTable t,int number){

this.t=t;

this.number=number;

}

public void run() {

t.printMultiplicationTable(number);

}

}

class MyThread3 extends Thread{

MultiplicationTable t ;

int number;

MyThread3(MultiplicationTable t,int number){

this.t=t;

this.number=number;

}

public void run() {

t.printMultiplicationTable(number);

}

}

public class ThreadSynchronization{

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int num1,num2,num3;

MultiplicationTable m= new MultiplicationTable();

System.out.println("Enter the Table you want to run by thread1 : ");

num1=sc.nextInt();

MyThread1 t= new MyThread1(m,num1);

System.out.println("Enter the Table you want to run by thread2 : ");

num2=sc.nextInt();

MyThread2 t2 =new MyThread2(m,num2);

System.out.println("Enter the Table you want to run by thread3 : ");

num3=sc.nextInt();

MyThread3 t3 =new MyThread3(m,num3);

t.start();

t2.start();

t3.start();

}

}

OUTPUT

Enter the Table you want to run by thread 1 :

10

Enter the Table you want to run by thread 2 :

3

Enter the Table you want to run by thread 3 :

5

The Multiplication Table Of The Given Thread ,10

1X10=10

2X10=20

3X10=30

4X10=40

5X10=50

6X10=60

7X10=70

8X10=80

9X10=90

10X10=100

The Multiplication Table Of The Given Thread ,5

1X5=5

2X5=10

3X5=15

4X5=20

5X5=25

6X5=30

7X5=35

8X5=40

9X5=45

10X5=50

The Multiplication Table Of The Given Thread ,3

1X3=3

2X3=6

3X3=9

4X3=12

5X3=15

6X3=18

7X3=21

8X3=24

9X3=27

10X3=30