/\*Program to implement multithreading where 1st thread displays multiples of x in range

1-500 ,2nd thread displays multiples of x in range 500 to 100,3rd thread displays multiples of 7 till 100

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Program

import java.util.Scanner;

class rough

{

public static void main(String args[])

{

int n;

Scanner in =new Scanner(System.in);

System.out.println("\nEnter the Limit:");

n=in.nextInt();

new thread2("1-500",n);

new thread1("500-1000",n);

new thread3("1-100",7);

try {

Thread.sleep(10000);

}

catch (InterruptedException e)

{

System.out.println("Main thread Interrupted");

}

}

}

class thread2 implements Runnable

{

String name;

int limit;

Thread t1;

thread2(String name1,int l)

{

limit=l;

name = name1;

t1 = new Thread(this, name);

System.out.println("New thread: " + t1);

t1.start();

}

public void run()

{

try {

int s;

//System.out.println(" ");

for(int i=1;i<=1000;i++)

{

s=1;

s=limit\*i;

if(s<1000)

{ System.out.println(limit+"+"+i+"="+s);}

else

break;

}

Thread.sleep(1000);

}

catch (InterruptedException e)

{

System.out.println(name + "Interrupted");

}

}

}

class thread1 implements Runnable

{

String name;

int limit;

Thread t;

thread1(String name1,int l)

{

limit=l;

name = name1;

t = new Thread(this, name);

System.out.println("New thread: " + t);

t.start();

}

public void run()

{

try { int s;

for(int i=1;i<=500;i++)

{

s=1;

s=limit\*i;

if(s<100)

{ System.out.println(limit+"+"+i+"="+s);}

else

break;

}

Thread.sleep(1000);}

catch (InterruptedException e)

{

System.out.println(name + "Interrupted");

}}}

class thread3 implements Runnable

{

String name;

int limit;

Thread t2;

thread3(String name1,int l)

{

limit=l;

name = name1;

t2 = new Thread(this, name);

System.out.println("New thread: " + t2);

t2.start();

}

public void run()

{

try {

int s;

//System.out.println(" ");

for(int i=1;i<=100;i++)

{ s=1;

s=7\*i;

if(s<100)

{System.out.println("7"+i+"="+s);}

else

break;

}

Thread.sleep(1000);

}

catch (InterruptedException e)

{

System.out.println(name + "Interrupted");

}

}}

OUTPUT

student@administrator-HCL:~/Anand$ javac rough.java

student@administrator-HCL:~/Anand$ java rough

Enter the Limit:

6

New thread: Thread[1-500,5,main]

6+1=6

6+2=12

6+3=18

6+4=24

6+5=30

6+6=36

6+7=42

6+8=48

6+9=54

6+10=60

6+11=66

6+12=72

6+13=78

6+14=84

New thread: Thread[500-1000,5,main]

6+15=90

6+16=96

6+17=102

6+18=108

6+19=114

6+20=120

6+21=126

6+22=132

6+23=138

6+24=144

6+25=150

6+26=156

6+27=162

6+28=168

6+29=174

6+30=180

New thread: Thread[1-100,5,main]

6+1=6

6+31=186

6+2=12

6+32=192

6+3=18

6+33=198

6+4=24

6+34=204

6+5=30

6+35=210

6+6=36

6+36=216

6+7=42

6+37=222

6+8=48

6+38=228

6+9=54

6+39=234

6+10=60

6+40=240

6+11=66

6+41=246

6+12=72

6+42=252

6+13=78

6+43=258

6+14=84

6+44=264

6+15=90

6+45=270

6+16=96

6+46=276

6+47=282

6+48=288

6+49=294

6+50=300

6+51=306

6+52=312

6+53=318

6+54=324

6+55=330

6+56=336

6+57=342

6+58=348

6+59=354

6+60=360

71=7

6+61=366

72=14

6+62=372

73=21

6+63=378

74=28

75=35

6+64=384

76=42

77=49

78=56

79=63

6+65=390

710=70

711=77

6+66=396

712=84

713=91

714=98

6+67=402

6+68=408

6+69=414

6+70=420

6+71=426

6+72=432

6+73=438

6+74=444

6+75=450

6+76=456

6+77=462

6+78=468

6+79=474

6+80=480

6+81=486

6+82=492

6+83=498

6+84=504

6+85=510

6+86=516

6+87=522

6+88=528

6+89=534

6+90=540

6+91=546

6+92=552

6+93=558

6+94=564

6+95=570

6+96=576

6+97=582

6+98=588

6+99=594

6+100=600

6+101=606

6+102=612

6+103=618

6+104=624

6+105=630

6+106=636

6+107=642

6+108=648

6+109=654

6+110=660

6+111=666

6+112=672

6+113=678

6+114=684

6+115=690

6+116=696

6+117=702

6+118=708

6+119=714

6+120=720

6+121=726

6+122=732

6+123=738

6+124=744

6+125=750

6+126=756

6+127=762

6+128=768

6+129=774

6+130=780

6+131=786

6+132=792

6+133=798

6+134=804

6+135=810

6+136=816

6+137=822

6+138=828

6+139=834

6+140=840

6+141=846

6+142=852

6+143=858

6+144=864

6+145=870

6+146=876

6+147=882

6+148=888

6+149=894

6+150=900

6+151=906

6+152=912

6+153=918

6+154=924

6+155=930

6+156=936

6+157=942

6+158=948

6+159=954

6+160=960

6+161=966

6+162=972

6+163=978

6+164=984

6+165=990

6+166=996