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class newth implements Runnable{
    String disp,name;
    Thread t;
    int delay,sum_o=0;
    newth(String th_name,int d){
        name=th_name;
        t=new Thread(this,name);
        delay=d;
        System.out.println("New thread:"+t);
    }
    public void run(){
        try{
            for(int i=1;i<100;i+=2){
                sum_o+=i;
                Thread.sleep(delay);
            }
        }catch(InterruptedException e){
            System.out.println(name+"Interrupted");
        }
        System.out.println("Sum of odd numbers:"+sum_o);
    }
}

class Testj{
    public static void main(String args[]) throws InterruptedException{
        int sum_e=0;
        //System.out.println("Enter ctrl+C to Exit");
        newth nt=new newth("Thread1",100);
        nt.t.start();
        try{
            for(int i=0;i<=100;i+=2){
                sum_e+=i;
            }
        }
    }
}

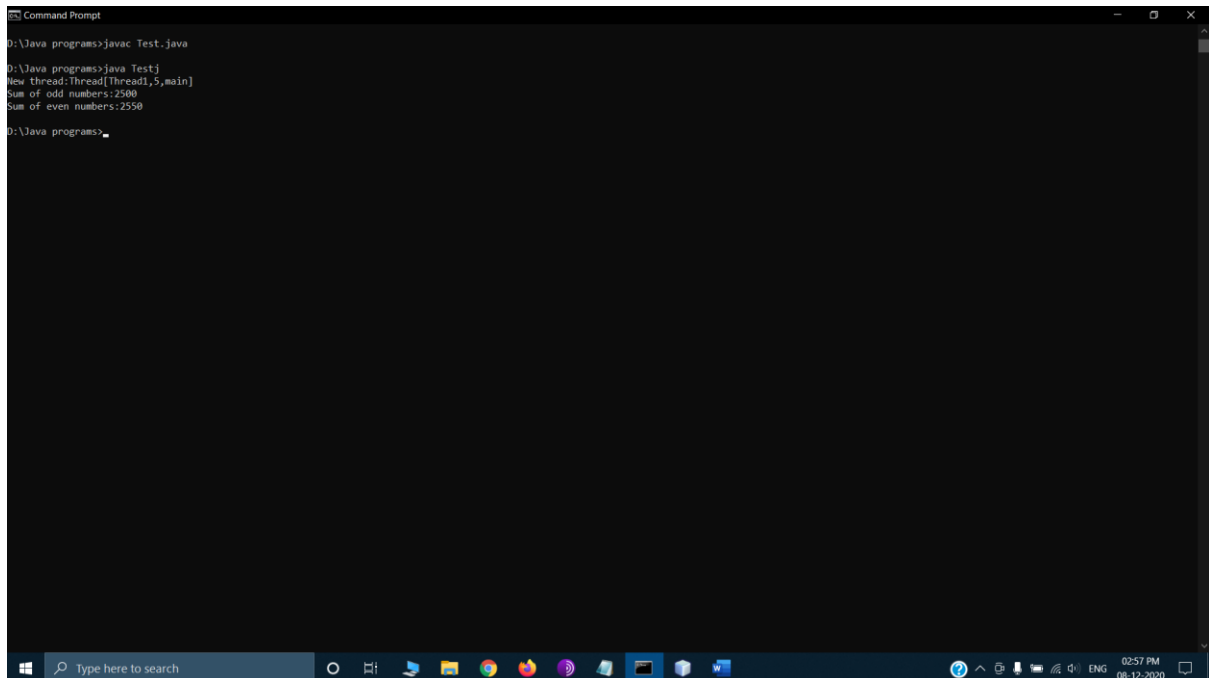
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        Thread.sleep(100);
    }

    }catch(InterruptedException e){
        System.out.println("Main thread interrupted");
    }
    System.out.println("Sum of even numbers:"+sum_e);
}
}

```



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Command Prompt
D:\Java programs>javac Test.java
D:\Java programs>java Testj
New thread:Thread[Thread1,5,main]
Sum of odd numbers:2500
Sum of even numbers:2550
D:\Java programs>

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import java.util.Random;

class newth implements Runnable{
    String name;
    char ch;

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Thread t;

int delay,x;

Random r=new Random();

newth(String th_name,int d,char c){
    name=th_name;
    t=new Thread(this,name);
    delay=d;
    ch=c;
    System.out.println("New thread:"+t);
}

public void run(){
    try{
        if(ch=='e')
            System.out.println("Random number:"+x+"\nSquare:"+x*x);
        else if(ch=='o')
            System.out.println("Random number:"+x+"\nCube:"+x*x*x);
        Thread.sleep(delay);
    }catch(InterruptedException e){
        System.out.println(name+"Interrupted");
    }
    System.out.println(name+"Exiting");
}

int gen_random(){
    x=r.nextInt(10);
    return x;
}

}

class Prac{

    public static void main(String args[]) throws InterruptedException{
        //System.out.println("Enter ctrl+C to Exit");
        newth nt1=new newth("Thread1",1000,'n');
    }
}

```

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newt nt2=new newt("Thread2",2000,'e');

newt nt3=new newt("Thread3",2000,'o');

int temp=nt1.gen_random();

nt2.x=temp;

nt3.x=temp;

if(nt1.x%2==0)

    nt2.t.start();

else

    nt3.t.start();

try{

    Thread.sleep(5000);

}catch(InterruptedException e){

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

}

}

}

```

```

C:\Java programs>javac Test.java

C:\Java programs>java Prac
New thread:Thread[Thread1,5,main]
New thread:Thread[Thread2,5,main]
New thread:Thread[Thread3,5,main]
Random number:8
Square:64
Thread2Exiting

C:\Java programs>java Prac
New thread:Thread[Thread1,5,main]
New thread:Thread[Thread2,5,main]
New thread:Thread[Thread3,5,main]
Random number:8
Square:64
Thread2Exiting

C:\Java programs>java Prac
New thread:Thread[Thread1,5,main]
New thread:Thread[Thread2,5,main]
New thread:Thread[Thread3,5,main]
Random number:7
Cube:343
Thread3Exiting

C:\Java programs>

```