



Programme	: BTech. CSE Core	Semester	: Win 2021-22
Course	: Java Programming	Code	: CSE1007
Faculty	: Dr. Pradeep K	Slot	: D2+TD2
Name	: Hariket Suresh Kumar Sheth	Register No.	: 20BCE1975

```
package lab6;
import java.util.*;
import java.lang.*;
class Solution implements Runnable{
    private Thread t;
    private String name;
    Solution(String s){
        name = s;
    }
    public void run(){
        System.out.println("Running "+name);
        if(name.equals("thread1")){
            try{
                for(int i=1; i<=10; i++){
                    System.out.println("Thread: "+name+" "+i);
                    Thread.sleep(50);
                }
            }
            catch(InterruptedException e){
                System.out.println("Thread: "+name+"Interrupted");
            }
        }
        else{
            try{
                for(int i=10; i>=1; i--){
                    System.out.println("Thread: "+name+" "+i);
                    Thread.sleep(50);
                }
            }
            catch(InterruptedException e){
                System.out.println("Thread: "+name+"Interrupted");
            }
        }
        System.out.println("Exiting");
    }
    public void start(){
        if(t==null){
            t =new Thread(this, name);
            t.start();
        }
    }
}
public class Lab6{
    public static void main(String[] args){
        Solution s1 = new Solution("thread1");
    }
}
```

```
s1.start();  
Solution s2 = new Solution ("thread2");  
s2.start();  
}  
}
```

OUTPUT:

Output - Lab6 (run) x

run:
Running thread2
Running thread1
Thread: thread2 10
Thread: thread1 1
Thread: thread2 2
Thread: thread2 9
Thread: thread1 3
Thread: thread2 8
Thread: thread1 4
Thread: thread2 7
Thread: thread2 6
Thread: thread1 5
Thread: thread2 5
Thread: thread1 6
Thread: thread2 4
Thread: thread1 7
Thread: thread2 3
Thread: thread1 8
Thread: thread2 2
Thread: thread1 9
Thread: thread2 1
Thread: thread1 10
Exiting
Exiting
BUILD SUCCESSFUL (total time: 0 seconds)