	DATE: / /
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Panel: A	
Lab Assignment -7 (IP)	
Aim:	
Class and Rumable Intorface.	oding using Theoad
Objective:	
Apply Multithocoading in Java Applic	cation.
Theory:	
Multitasking, Multiperocossizg, Multither	U
Multitasking: It repose to execution of	multiple processes
Multitasking: It suppose to execution of our task at some time on a single of it works on principles of time she waitabulus.	levice. In multitasking
switching.	g and consess
The little state of the state o	
Multiperocessing: In a time - perocessor &	ystem only one
ability of a system to supposit in	100ce than one
perocossols/CPV's i.e. multi perocess	es are executed
simultaneously.	
V	
Multitraceading.	1.
Multithologiques A thologod is a basic unit of CPV jubiliz	cution, Multi-tweesding

is an execution model that allows a Single process to home multiple code segments sunning concurrently within "context" of that PiDass. Lunnable Interjores. Thread class is to be extended by a Subclass. For They sum ()

Junction Should be overeiden you execution of thread. Then

object of Subclass should be created and start () function is called you thread execution. Runnable Interspece is implemented by a class which has to implement sum () junction in its body. Object of this class is passed to theread class and then that Object is used job execution of theread. method belongs to thougad class. Set Name (), get Name (), get Parioerity (), is Alive (), is Joins, sum (), sleep (), start (), active Count (), check Accore, words Twend dump stack (), get ID (), get State (), get Though group), interorupt (), yield (). Platform: Open source Jour longgrowning tool like Eclipse Editory Nelbeans.

Conclusion:
Thus studied multitheroading concept in Java-* FAG of why do we use Multithousaing in Jawa? And Advantages ove:

The does not block user because thereads one independent and you can perform multiple operations at some time--> Many operation can be performed together.

-> Thoreads are independent hence exception in a single thread does not stop, perogram. of 2 What is Multithoreading US Multiprocessing? And I Multiperocessing was two or more CPV's to increase computing power. Multithereading was a single process with multiples code regments to increase power. 2. Many operation can be possessured together. 3. Twends are independent hence exception in a single theread does not stop perogram. 4. Multiperocesses increase computing pawer by adding clu's.
Multithereading Joens on generating computing thoronds from a

93 What is thread in Jana? Ans A thougad is a thread of execution in a perogeram. The journ throads allow juster execution. The Jum creates and allows multithroad execution. Dy What are two ways of implementing twoward in Towa? And We can extend a thread class or implement a funnable you implementing thread in Java-OS What's the different thouand and perocess? Ans A process is perogram under execution whereas a thread is a lightweight perocess that can be managed by schedular. A persone takes high content switching time; a thread takes loss context switch time. Sovocon hold their segments storage was but thorade share memory. Jean

CODE:

```
class Even extends Thread
{
      public void run()
             for(int i=0;i<20;i=i+2)
             {
                   System.out.println("Even: "+i);
             }
      }
}
class Odd extends Thread
{
      public void run()
      {
            for(int i=1;i<20;i=i+2)
                   System.out.println("Odd: "+i);
             }
      }
}
public class Main {
      /**
       * @param args
      public static void main(String[] args) {
            // TODO Auto-generated method stub
```

```
Odd o=new Odd();
Even e=new Even();
o.start();
e.start();
}
```

Output:

```
Odd: 1
Odd: 3
Odd: 5
Odd: 7
Odd: 9
Odd: 11
Odd: 13
Odd: 15
Odd: 17
Odd: 19
Even: 0
Even: 2
Even: 4
Even: 6
Even: 8
Even: 10
Even: 12
Even: 14
Even: 16
Even: 18

...Program finished with exit code 0
Press ENTER to exit console.
```



