Institute of Computer Technology
B. Tech Computer Science and Engineering
Subject: OOP (2CSE303)

PRACTICAL-22

AIM: - Anshul was provided with a task to optimize the system by implementing multithreading. Consider three threads Thread1, Thread2 and Thread3, Thread2 should run followed by Thread1 set the priorities accordingly. Thread 3 should execute only after Thread2 execution is completed. Also display the meta data of threads such as id, name, alive status.

SOLUTION

```
package practicals;
/**
 *
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 */

class Multithreading extends Thread{
   public void run(){
   System.out.println("Thread Running \nID is:
"+Thread.currentThread().getId());
   System.out.println("Priority for "+Thread.currentThread().getName()+" is:
"+Thread.currentThread().getPriority());

for(int i=0; i<3;i++)  {
System.out.println("Thread is currently active.");
      }
   }
}
public class prac22 {
   public static void main(String args[]){
      Multithreading t1=new Multithreading();
      Multithreading t2=new Multithreading();
      Multithreading t3=new Multithreading();
      t1.start();
      t2.start();

      t1.setPriority(Thread.MIN_PRIORITY);
```

```
        t2.setPriority(Thread.MAX_PRIORITY);

        try{
           t2.join();
        }
        catch(Exception e){
        t3.start();
        System.out.println("Thread Alive: Thread 1: "+t1.isAlive()+" Thread 2:
"+t2.isAlive()+" Thread 3: "+t3.isAlive());
        }
    }
}
```

OUTPUT