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Branch - CBA , Batch - 31

OOP Practical 19

Problem : 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 and name.

Program :

```
package Hare_Krishna;

import java.util.Scanner;

public class Prac_19
{
    public static void main(String... s)
    {
        Scanner scanner = new Scanner(System.in);
        String name1, name2, name3;
        System.out.print("\nEnter First Name: ");
        name1 = scanner.next();
        System.out.print("Enter Second Name: ");
        name2 = scanner.next();
        System.out.print("Enter Third Name: ");
        name3 = scanner.next();
    }
}
```

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```
int id1, id2, id3;

id1 = 101;
id2 = 102;
id3 = 103;

Thread t1 = new Thread(name1);
Thread t2 = new Thread(name2);
Thread t3 = new Thread(name3);
t1.start();
t2.start();
t3.start();

try
{
    Thread.sleep(600);
}
catch (Exception e)
{
    System.out.println(e);
}

System.out.println("ID → " + id1 + " \nName → " +
t1.getName());

System.out.println();
```

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```
        try
        {
            Thread.sleep(600);
        }
        catch (Exception e)
        {
            System.out.println(e);
        }

        System.out.println("ID → " + id2 + " \nName → " +
t2.getName());

        System.out.println();

        try
        {
            Thread.sleep(600);
        }
        catch (Exception e)
        {
            System.out.println(e);
        }

        System.out.println("ID → " + id3 + " \nName → " +
t3.getName());
```

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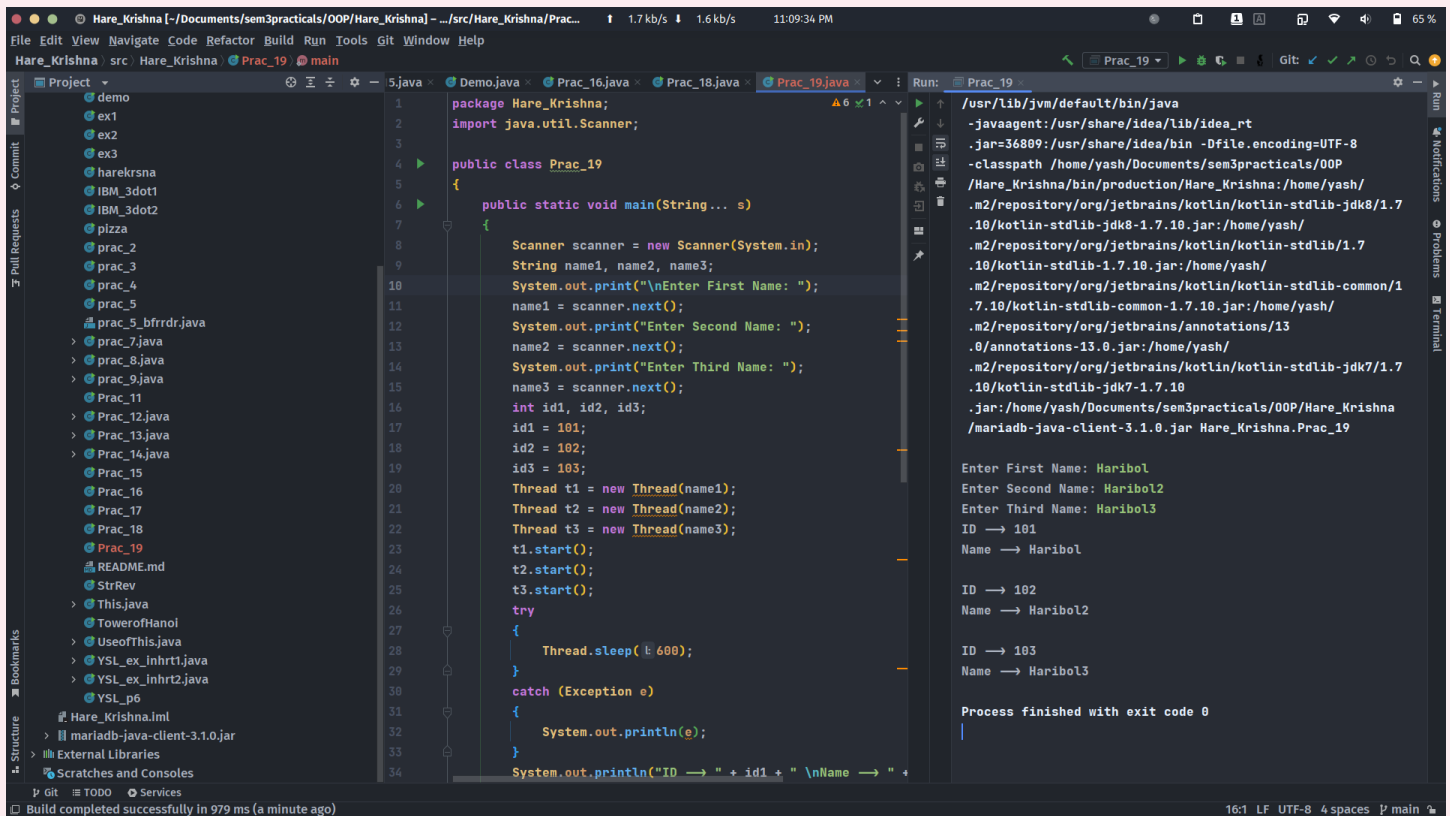
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```
}  
  
}
```

Output :



```
package Hare_Krishna;  
import java.util.Scanner;  
  
public class Prac_19  
{  
    public static void main(String... s)  
    {  
        Scanner scanner = new Scanner(System.in);  
        String name1, name2, name3;  
        System.out.print("\nEnter First Name: ");  
        name1 = scanner.next();  
        System.out.print("\nEnter Second Name: ");  
        name2 = scanner.next();  
        System.out.print("\nEnter Third Name: ");  
        name3 = scanner.next();  
        int id1, id2, id3;  
        id1 = 101;  
        id2 = 102;  
        id3 = 103;  
        Thread t1 = new Thread(name1);  
        Thread t2 = new Thread(name2);  
        Thread t3 = new Thread(name3);  
        t1.start();  
        t2.start();  
        t3.start();  
        try  
        {  
            Thread.sleep(600);  
        }  
        catch (Exception e)  
        {  
            System.out.println(e);  
        }  
        System.out.println("ID -> " + id1 + " \nName -> " + name1);  
        System.out.println("ID -> " + id2 + " \nName -> " + name2);  
        System.out.println("ID -> " + id3 + " \nName -> " + name3);  
    }  
}
```

```
/usr/lib/jvm/default/bin/java  
-javaagent:/usr/share/idea/lib/idea_rt  
-jar=36809:/usr/share/idea/bin -Dfile.encoding=UTF-8  
-classpath /home/yash/Documents/sem3practicals/OOP  
/Hare_Krishna/bin/production/Hare_Krishna:/home/yash/  
.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk8/1.7  
.10/kotlin-stdlib-jdk8-1.7.10.jar:/home/yash/  
.m2/repository/org/jetbrains/kotlin/kotlin-stdlib/1.7  
.10/kotlin-stdlib-1.7.10.jar:/home/yash/  
.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-common/1  
.7.10/kotlin-stdlib-common-1.7.10.jar:/home/yash/  
.m2/repository/org/jetbrains/annotations/13  
.0/annotations-13.0.jar:/home/yash/  
.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk7/1.7  
.10/kotlin-stdlib-jdk7-1.7.10.jar:/home/yash/  
Documents/sem3practicals/OOP/Hare_Krishna  
/mariadb-java-client-3.1.0.jar Hare_Krishna.Prac_19  
  
Enter First Name: Haribol  
Enter Second Name: Haribol2  
Enter Third Name: Haribol3  
ID -> 101  
Name -> Haribol  
  
ID -> 102  
Name -> Haribol2  
  
ID -> 103  
Name -> Haribol3  
  
Process finished with exit code 0
```