DATE:12/03/2024

<div align="center">PROGRAM-1</div>

<div align="center">LAB-8</div>

AIM:-WRITE A JAVA PROGRAM TO SHOW MULTITHREADED PRODUCER.

CODE:

```java
public class lab_8_1 extends Thread {
    public void run(){
        int i=0;
        while(i<4){
            System.out.println(" thread 1 is running");
            i++;
        }
    }
    public static void main(String[] args){
        lab_8_1 l= new lab_8_1();
        thread t= new thread();
        l.start();
        t.start();
        thread1 t1= new thread1();
        Thread t2 = new Thread(t1);
        t2.start();
    }
}
class thread extends Thread{
```

```java
    public void run(){

        int j=0;

        while(j<4){

            System.out.println("thread 2 is running ");

            j++;

        }

    }

}
class thread1 implements Runnable{

    @Override

    public void run() {

        System.out.println("thread is running by implements Runnable interface ");

    }

}
```

OUTPUT:

```
C:\Users\Admin\.jdks\openjdk-22\bin\java.exe --enab
 thread 1 is running
 thread 1 is running
 thread 1 is running
 thread 1 is running
thread 2 is running
thread 2 is running
thread 2 is running
thread 2 is running
thread is running by implements Runnable interface

Process finished with exit code 0
```