

SKILL 10 CHALLENGES

```
package com.threads;

class Producer extends Thread{
    StringBuffer sb;
    Producer(){
        sb=new StringBuffer();
    }
    public void run() {
        synchronized(sb) {
            for(int i=1;i<=10;i++) {
                try {
                    sb.append(i+":");
                    Thread.sleep(1000);
                    System.out.println("appending");
                }catch(Exception e) {
                }
                sb.notify();
            }
        }
    }
}
```

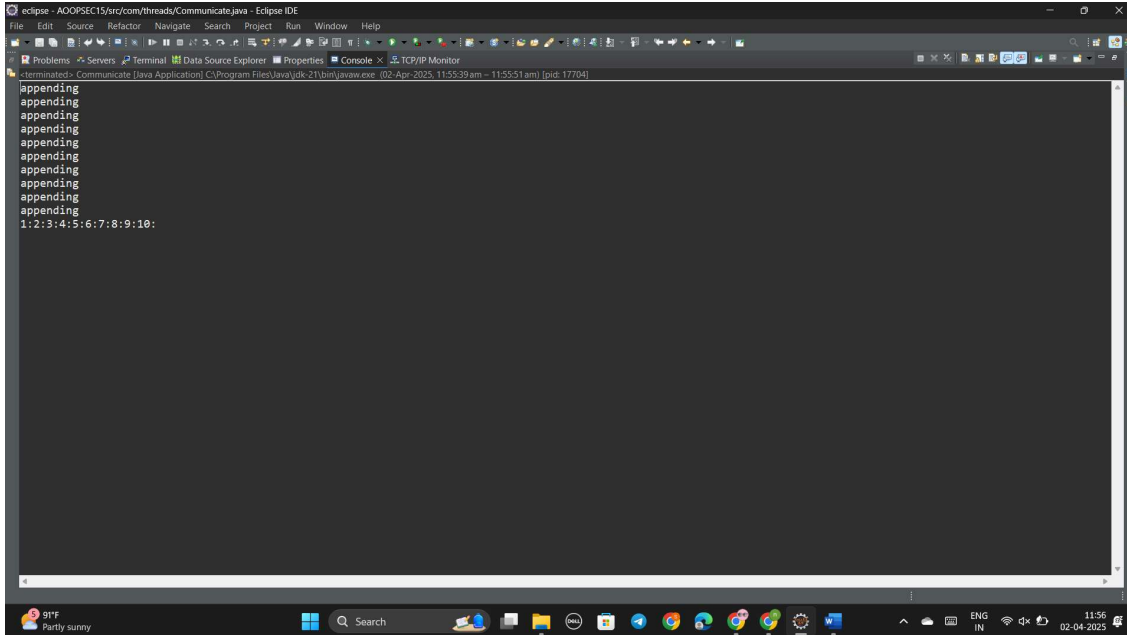
```

class Consumer extends Thread{
    Producer prod;
    Consumer(Producer prod){
        this.prod=prod;
    }
    public void run() {
        try {
            prod.sb.wait();
        }catch(Exception e) {
        }
        System.out.println(prod.sb);
    }
}

public class Communicate {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Producer obj1=new Producer();
        Consumer obj2=new Consumer(obj1);
        Thread t1=new Thread(obj1);
        Thread t2=new Thread(obj2);
        t1.start();
        t2.start();
    }
}

```

```
}  
  
}
```



The screenshot shows the Eclipse IDE interface. The title bar reads "eclipse - ADOPTSEC15/src/com/threads/Communicate.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains icons for various IDE functions. The "Console" tab is active, displaying the following output:

```
appending  
appending  
appending  
appending  
appending  
appending  
appending  
appending  
appending  
1:2:3:4:5:6:7:8:9:10:
```

The status bar at the bottom shows the weather as "91°F Partly sunny", a search bar, and the system clock indicating "11:56 02-04-2025".