Fundamentals of Parallel Systems

Lab Book

**Week 1**

**Consumer.groovy:**

//insert a modified println statement

*println* "Your input multiplied by the factor is: " + i

**CreateSetsOfEight.groovy:**

// put v into outList and read next input

outList.add(v)

**Multiplier.groovy:**

// write i \* factor to outChannel

outChannel.write(i \* factor)

// read in the next value of i

i = inChannel.read()

Run Multiplier.groovy:

//insert here an instance of multiplier with a multiplication factor of 4

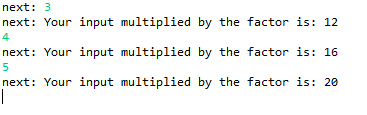
**new** Multiplier ( inChannel: connect1.**in**(),

outChannel: connect2.out(), factor:4 ),

**Diagram:**



**Working Screenshot:**



**ListToStream.groovy:**

// hint: output list elements as single integers

**for**(**int** i=0; i<3; i++)

{

outChannel.write(inList[i])

}

inList = inChannel.read()

**GenerateSetsOfThree.groovy:**

//write the terminating List as per exercise definition

outChannel.write([-1, -1, -1])

**CreateSetsOfEight.groovy:**

// put v into outList and read next input

outList[i] = v

v = inChannel.read()