**Lab Book**

**Ex 2-1**



**Consumer.groovy**

// insert a modified println statement

*println* "the result was: ${i}"

**Multiplier.groovy**

// write i \* factor to outChannel

outChannel.write(i \* factor)

// read in the next value of i

i = inChannel.read()

**RunMultiplier.groovy**

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

**new** Multiplier (inChannel: connect1.in(), outChannel: connect2.out(), factor: 4),

**Output**

next: 1

next: the result was: 4

2

next: the result was: 8

4

next: the result was: 16

3

next: the result was: 12

0

Finished

**Ex 2-2C:\Users\Beej\AppData\Local\Microsoft\Windows\INetCacheContent.Word\ex2.2_diagram.png**

**GenerateSetsOfThree.groovy**

//write the terminating List as per exercise definition

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

**ListToStream.groovy**

// hint: output list elements as single integers

**for** ( i **in** 0 ..< inList.size)outChannel.write(inList[i])

inList = inChannel.read()

**CreateSetsOfEight.groovy**

// put v into outList and read next input

outList[i] = v

v = inChannel.read()

**Output**

Eight Object is [1, 2, 3, 4, 5, 6, 7, 8]

Eight Object is [9, 10, 11, 12, 13, 14, 15, 16]

Eight Object is [17, 18, 19, 20, 21, 22, 23, 24]

Finished