

RStudio

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modul1.R

```
1 #1 a)
2 p = 0.20
3 n = 3
4 q=1-p
5
6 p^n*q^n
7
8
```

Environment History Connections Tutorial

R - Global Environment

Values	
n	3
p	0.2
q	0.8

Files Plots Packages Help Viewer

Zoom Export

Console Terminal Jobs

R 4.1.3 ~ /

```
> #1 a)
> p = 0.20
> n = 3
> q=1-p
>
> p^n*q^n
[1] 0.1024
>
```

RStudio

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modul1.R

```
1 #1 b)
2 p = 0.20
3 n = 3
4 q=1-p
5 mean(rgeom(n = 10000, prob = p) == 3)
6
```

Environment History Connections Tutorial

R - Global Environment

Values	
n	3
p	0.2
q	0.8

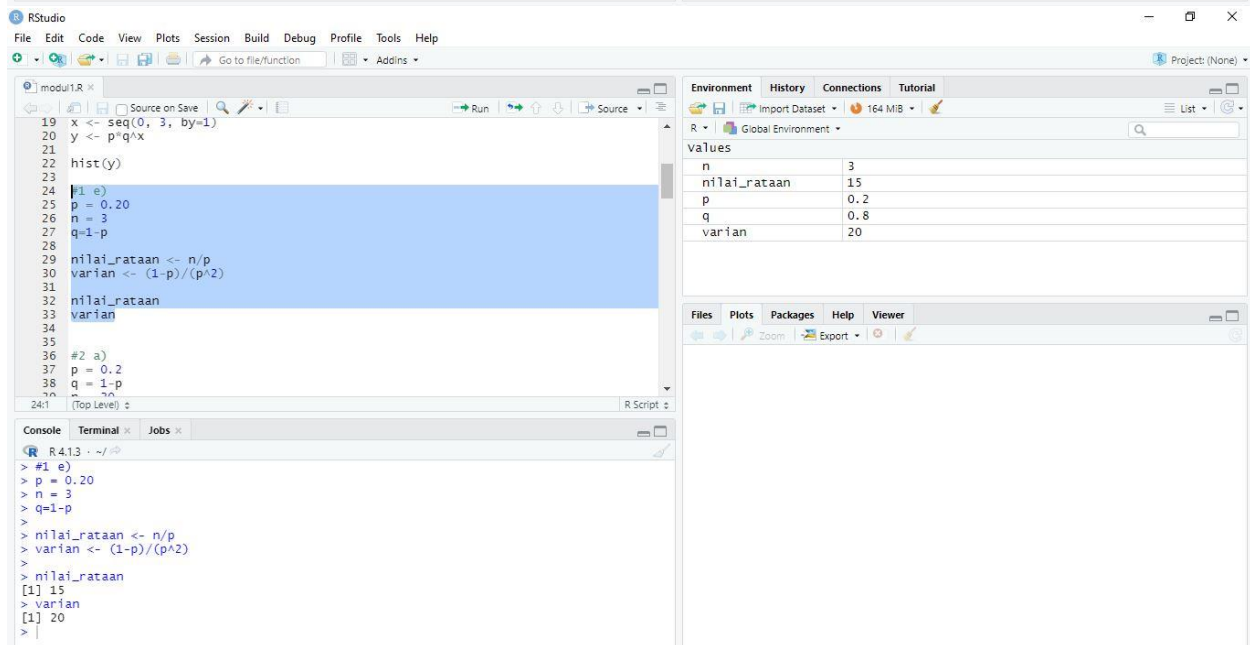
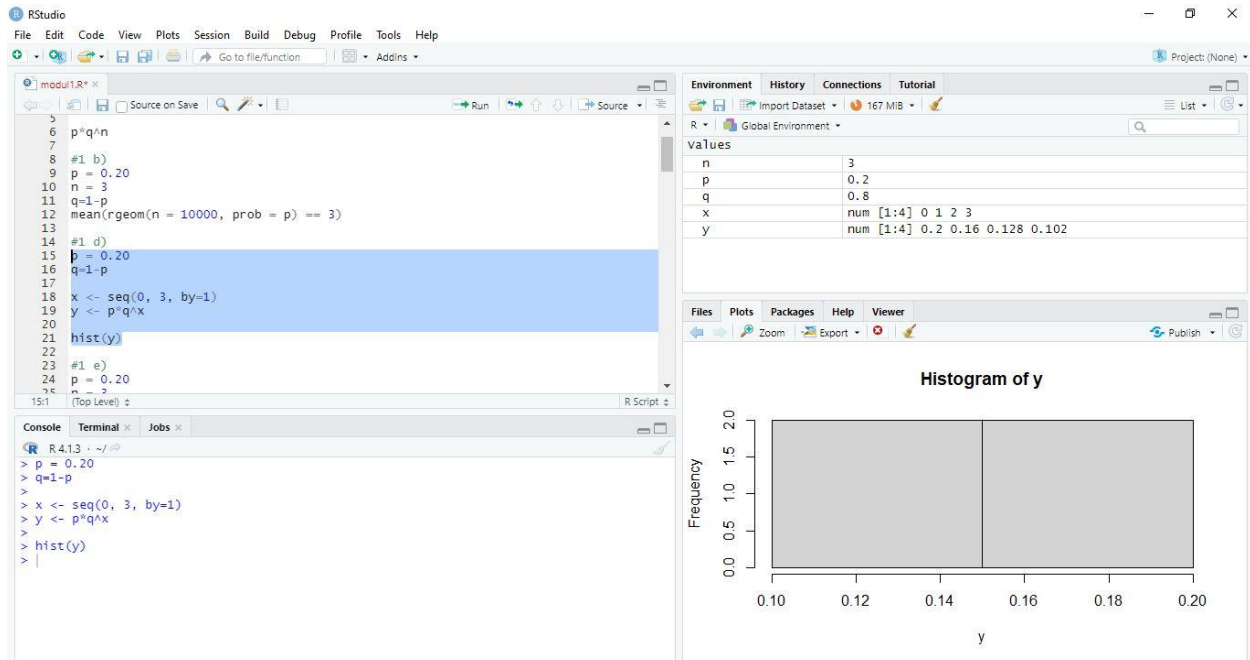
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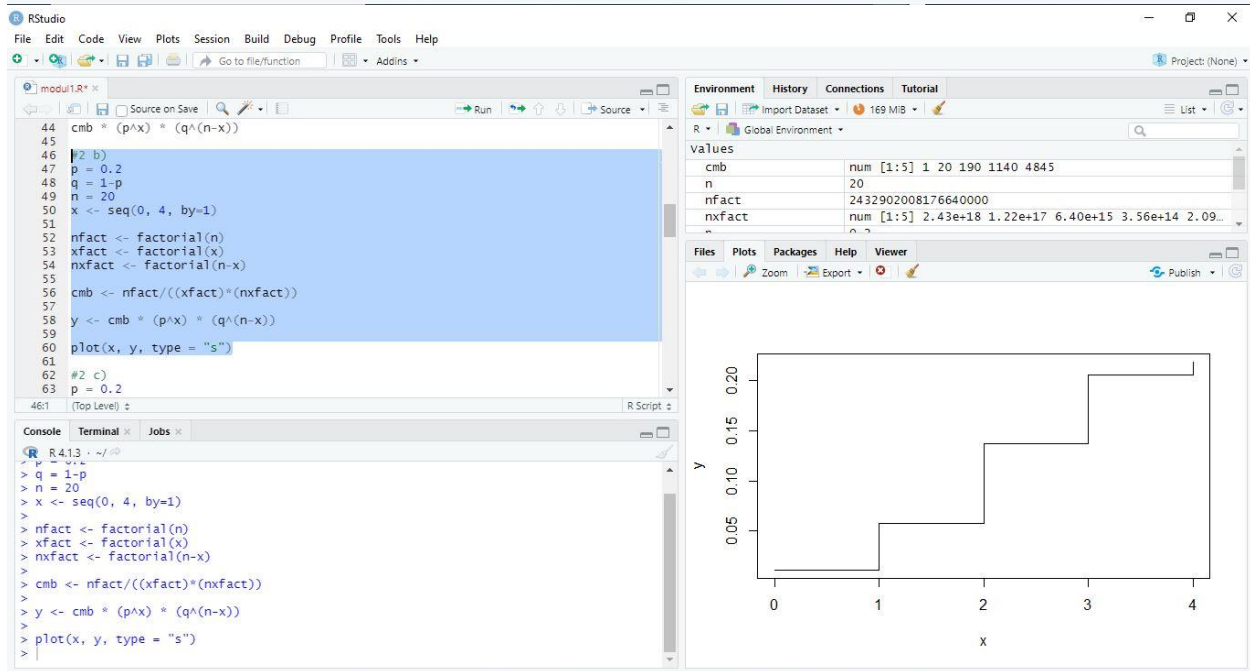
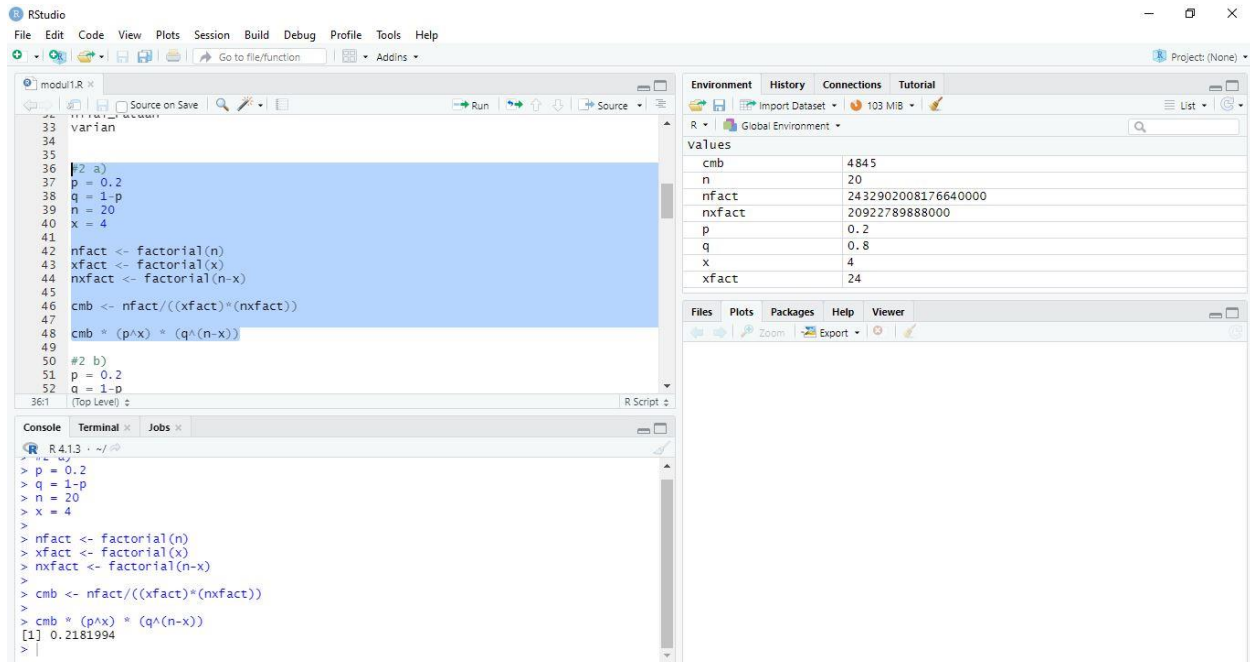
Zoom Export

Console Terminal Jobs

R 4.1.3 ~ /

```
> #2 p
> mean(rgeom(n = 10000, prob = p) == 3)
[1] 0.1031
> #1 b)
> p = 0.20
> n = 3
> q=1-p
> mean(rgeom(n = 10000, prob = p) == 3)
[1] 0.1037
> #1 b)
> p = 0.20
> n = 3
> q=1-p
> mean(rgeom(n = 10000, prob = p) == 3)
[1] 0.1025
```





RStudio

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Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

R - Global Environment

Object	Class	Value
nilai_rataan	num	4
nx	num	[1:4] 19 18 17 16
nxfact	num	[1:5] 2.43e+18 1.22e+17 6.40e+15 3.56e+14 2.09e+13
p	num	0.2
q	num	0.8
varian	num	3.2
x	num	4
xfact	num	[1:5] 1 1 2 6 24
y	num	[1:5] 0.0115 0.0576 0.1369 0.2054 0.2182

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Name	Size	Modified
WordRmErrors.log	914 B	Apr 8, 2022, 9:20 PM
Workshop PKM GFK.pptx	2.4 MB	Mar 4, 2021, 2:58 PM
wpp.jpg	790.4 KB	Mar 28, 2021, 5:47 PM
wpp2.jpg	141.7 KB	Mar 28, 2021, 5:48 PM
wpp3.jpg	508.8 KB	Mar 28, 2021, 5:54 PM
wpp4.jpg	686.4 KB	Mar 28, 2021, 5:58 PM
wpp5.jpg	1.8 MB	Mar 28, 2021, 6:00 PM
wpp6.jpg	115 KB	Mar 28, 2021, 6:02 PM
wpp7.jpg	333.9 KB	Mar 28, 2021, 6:05 PM
wpp8.jpg	610.5 KB	Mar 28, 2021, 6:06 PM
wpp8.png	826 KB	Mar 28, 2021, 6:07 PM
yy.doc	269.5 KB	Sep 26, 2020, 3:36 PM
Zoom		
geometric.png	2.3 KB	Apr 9, 2022, 9:41 AM

Console Terminal Jobs

```
R 4.1.3 ~ /
> p = 0.2
> q = 1-p
> n = 20
> x = 4
>
> nilai_rataan <- n*p
> varian <- n*p*q
>
> nilai_rataan
[1] 4
> varian
[1] 3.2
>
```

RStudio

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Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

R - Global Environment

Object	Class	Value
nilai_rataan	num	0.333333333333333
peluang	num	0.128120143864584
v	num	10
varian	num	0.111111111111111
x	num	6

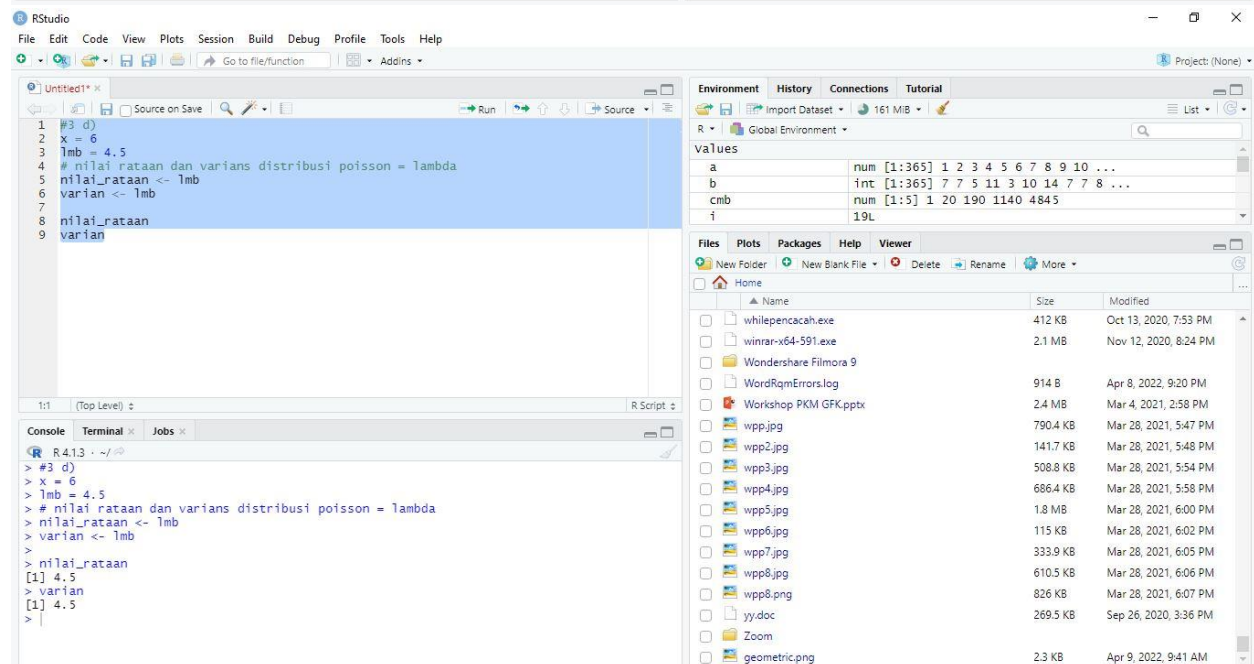
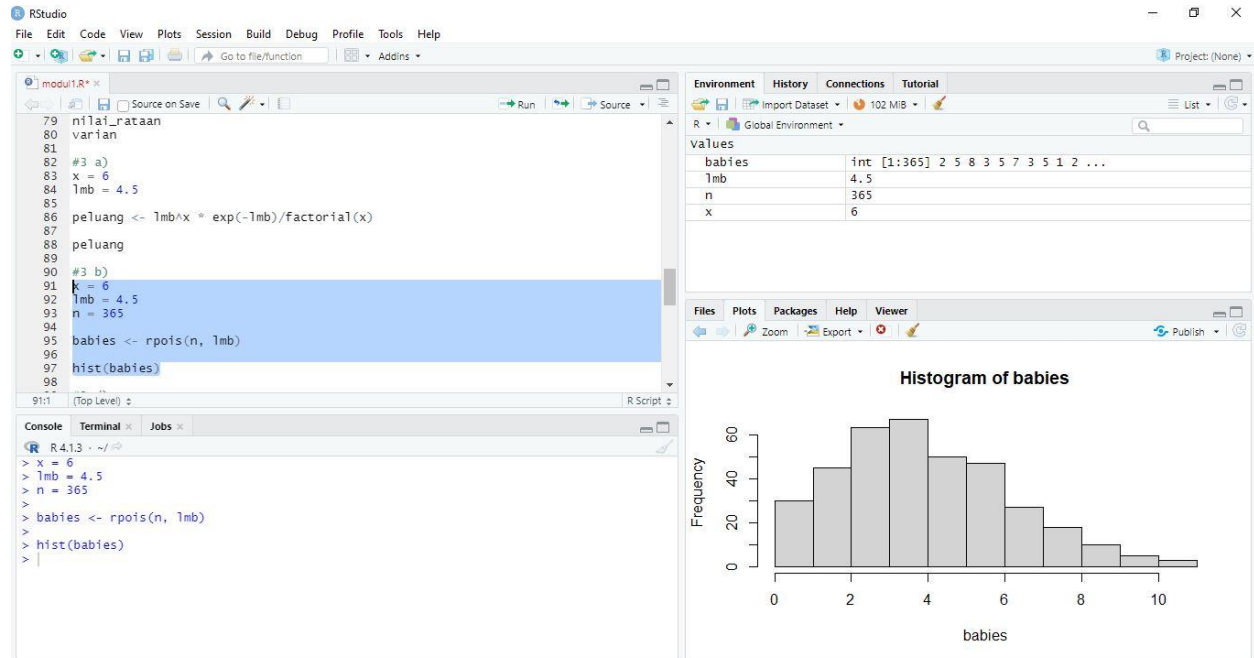
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.Rhistory	7.1 KB	Apr 9, 2022, 7:51 PM
~\$dokumentasi sosil.docx	162 B	Aug 6, 2021, 10:28 PM
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~\$25201108_Hasna Lathifah P.docx	162 B	May 4, 2021, 8:25 AM
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~\$dwal Ujian Praktik.docx	162 B	Mar 3, 2021, 11:00 AM
~\$essai.docx	162 B	Sep 1, 2021, 4:03 PM
~\$gas mat no 3.docx	162 B	May 31, 2021, 6:33 PM
~\$gas mat.docx	162 B	Apr 6, 2021, 11:23 PM
~\$gas mtk.docx	162 B	May 23, 2021, 5:33 AM
~\$grafik.docx	162 B	Nov 28, 2020, 6:37 PM
~\$kalab.docx	162 B	Jun 29, 2020, 8:40 AM
~\$kwin.docx	162 B	May 14, 2021, 9:10 PM
~\$lapfis.docx	162 B	Oct 31, 2020, 9:31 AM

Console Terminal Jobs

```
R 4.1.3 ~ /
> #3 a)
> x = 6
> lmb = 4.5
>
> peluang <- lmb^x * exp(-lmb)/factorial(x)
>
> peluang
[1] 0.1281201
>
```



RStudio

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modul1.R

```

101 lmb = 4.5
102 # nilai rata-rata dan varians distribusi poisson = lambda
103 nilai_rataan <- lmb
104 varian <- lmb
105
106 nilai_rataan
107 varian
108
109 #4 a)
110 x = 2
111 v = 10
112
113 peluang <- dchisq(x,v)
114 peluang
115
116 #4 b)
117 x = 2
118 v = 10
119
120 hist(rchisq(x,v),main="Histogram of chisquare")

```

Console

```

> #4 a)
> x = 2
> v = 10
>
> peluang <- dchisq(x,v)
> peluang
[1] 0.007664155
>

```

Environment

values	
peluang	0.00766415502440505
v	10
x	2

Files Plots Packages Help Viewer

Zoom Export

RStudio

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modul1.R

```

110 x = 2
111 v = 10
112
113 peluang <- dchisq(x,v)
114 peluang
115
116 #4 b)
117 x = 2
118 v = 10
119
120 y <- rchisq(x,v)
121
122 hist(y)
123
124 #4 c)
125 x = 2
126 v = 10
127
128 nilai_rataan = v
129 varian = 2*v
130

```

Console

```

> #4 b)
> x = 2
> v = 10
>
> y <- rchisq(x,v)
>
> hist(y)
>

```

Environment

values	
v	10
x	2
y	num [1:2] 8.56 4.45

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Zoom Export Publish

Histogram of y

Frequency

y

RStudio

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modul1.R

```
121 hist(y)
122
123 #4 c)
124 x = 2
125 v = 10
126
127
128 nilai_rataan = v
129 varian = 2*v
130
131 nilai_rataan
132 varian
133
134 #5 a)
135 lambda = 3
136
137 pexp(lambda)
138
139 #5 c)
140 lambda = 3
```

Environment History Connections Tutorial

R Global Environment 108 MiB

values	
nilai_rataan	10
v	10
varian	20
x	2

Files Plots Packages Help Viewer

Console Terminal Jobs

```
R 4.1.3 ~ /
> #4 c)
> x = 2
> v = 10
>
> nilai_rataan = v
> varian = 2*v
>
> nilai_rataan
[1] 10
> varian
[1] 20
>
```

RStudio

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modul1.R

```
1 #5 a)
2 lambda = 3
3
4 pexp(lambda)
```

Environment History Connections Tutorial

R Global Environment 177 MiB

lambda	3
lmb	4.5
n	365
nilai_rataan	10
v	10

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~\$kwin.docx	162 B	May 14, 2021, 9:10 PM
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Console Terminal Jobs

```
R 4.1.3 ~ /
> #5 a)
> lambda = 3
>
> pexp(lambda)
[1] 0.9502129
>
```

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

modul1.R

```
111 nilai_rataan = v
112 varian = 2*v
113
114 nilai_rataan
115 varian
116
117 #5 a)
118 lambda = 3
119
120 pexp(lambda)
121
122 #5 c)
123 lambda = 3
124 n = 100
125
126 nilai_rataan = 1/lambda
127 varian = 1/ lambda^2
128
129 nilai_rataan
130 varian
```

Environment History Connections Tutorial

R Global Environment

lmb	4.5
n	100
nilai_rataan	0.333333333333333
v	10
varian	0.111111111111111

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Home

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~\$lapfis.docx	162 B	Oct 31, 2020, 9:31 AM

Console Terminal Jobs

R 4.1.3 ~ /

```
> #5 c)
> lambda = 3
> n = 100
>
> nilai_rataan = 1/lambda
> varian = 1/ lambda^2
>
> nilai_rataan
[1] 0.3333333
> varian
[1] 0.1111111
>
```