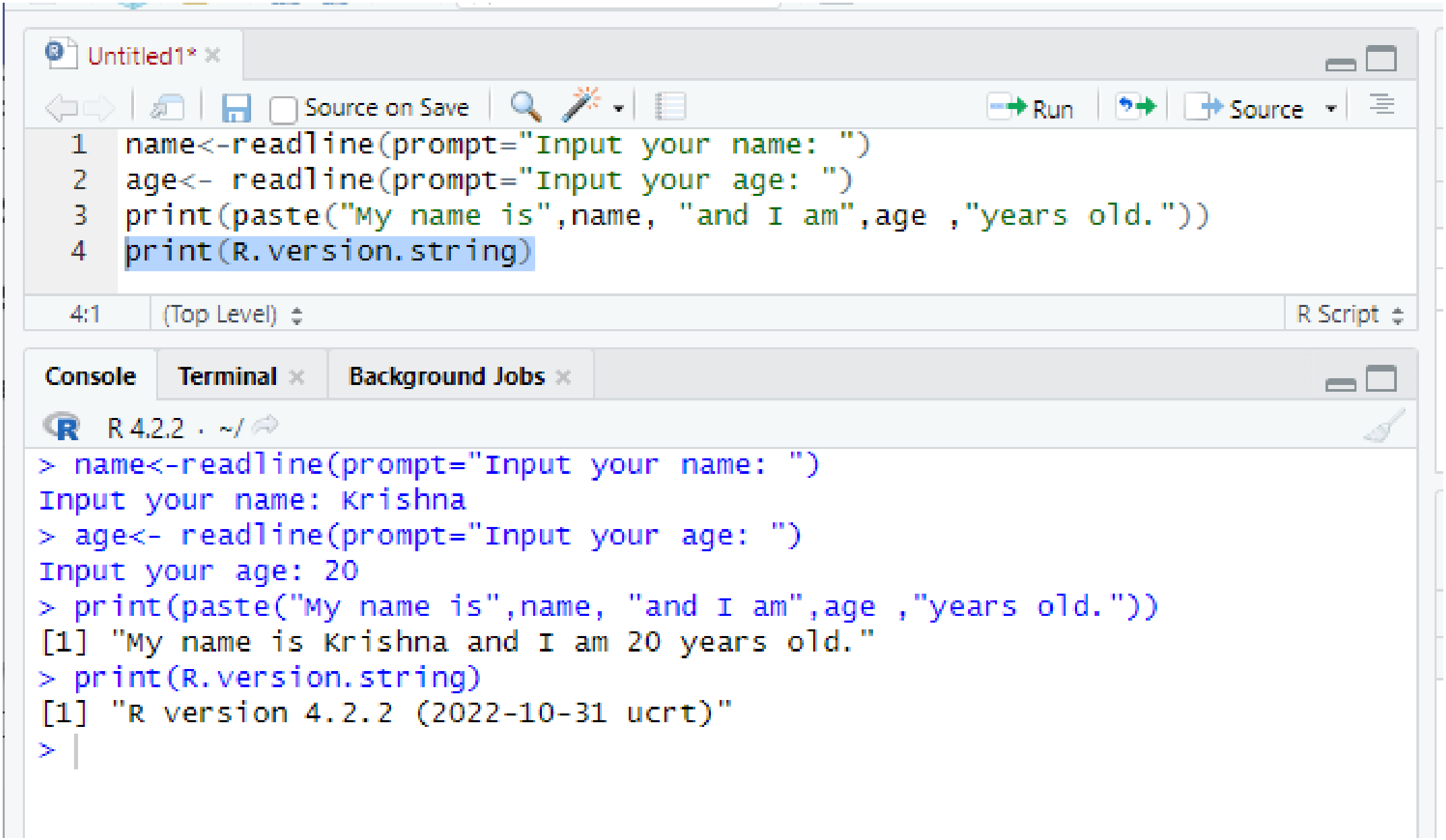
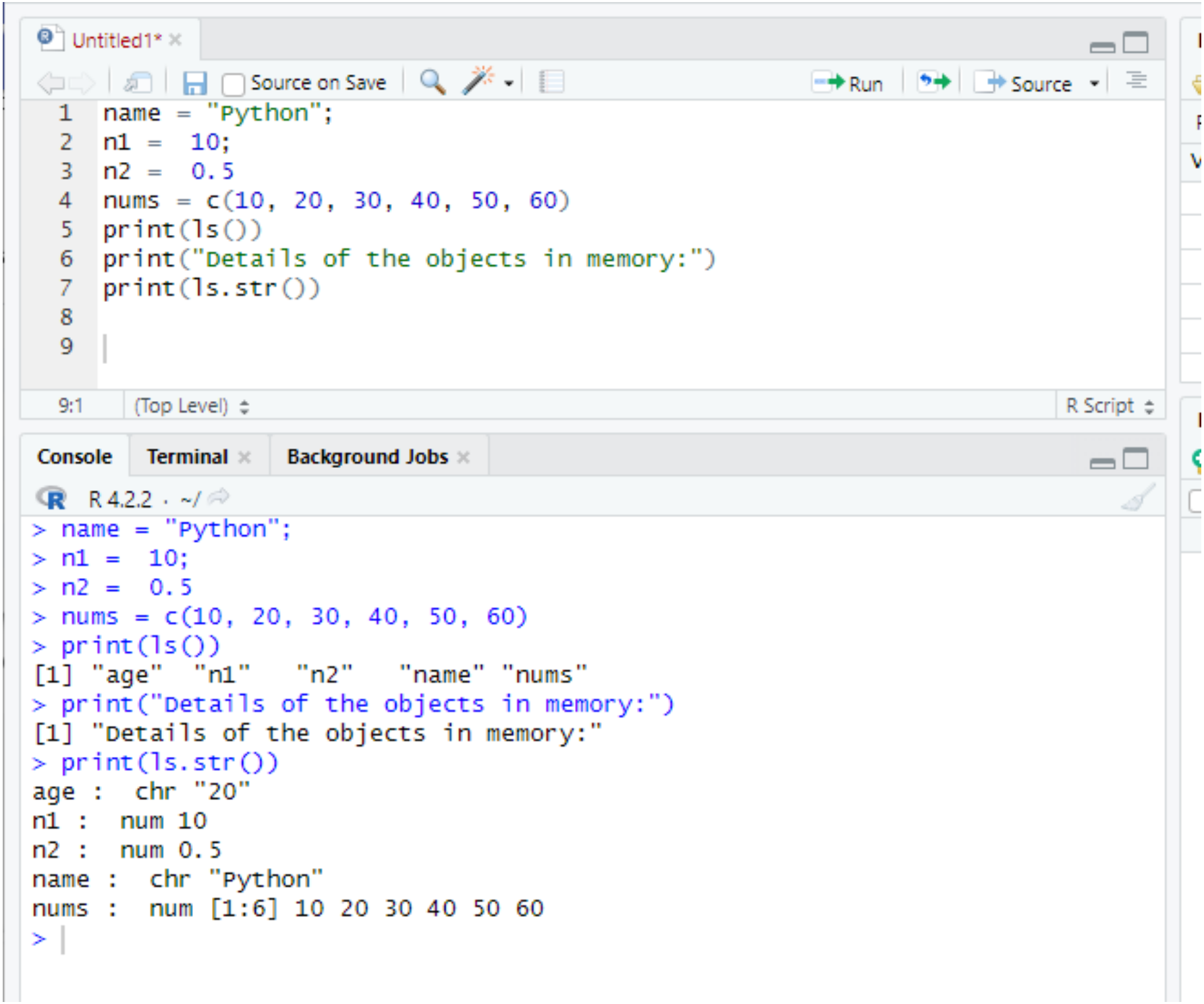
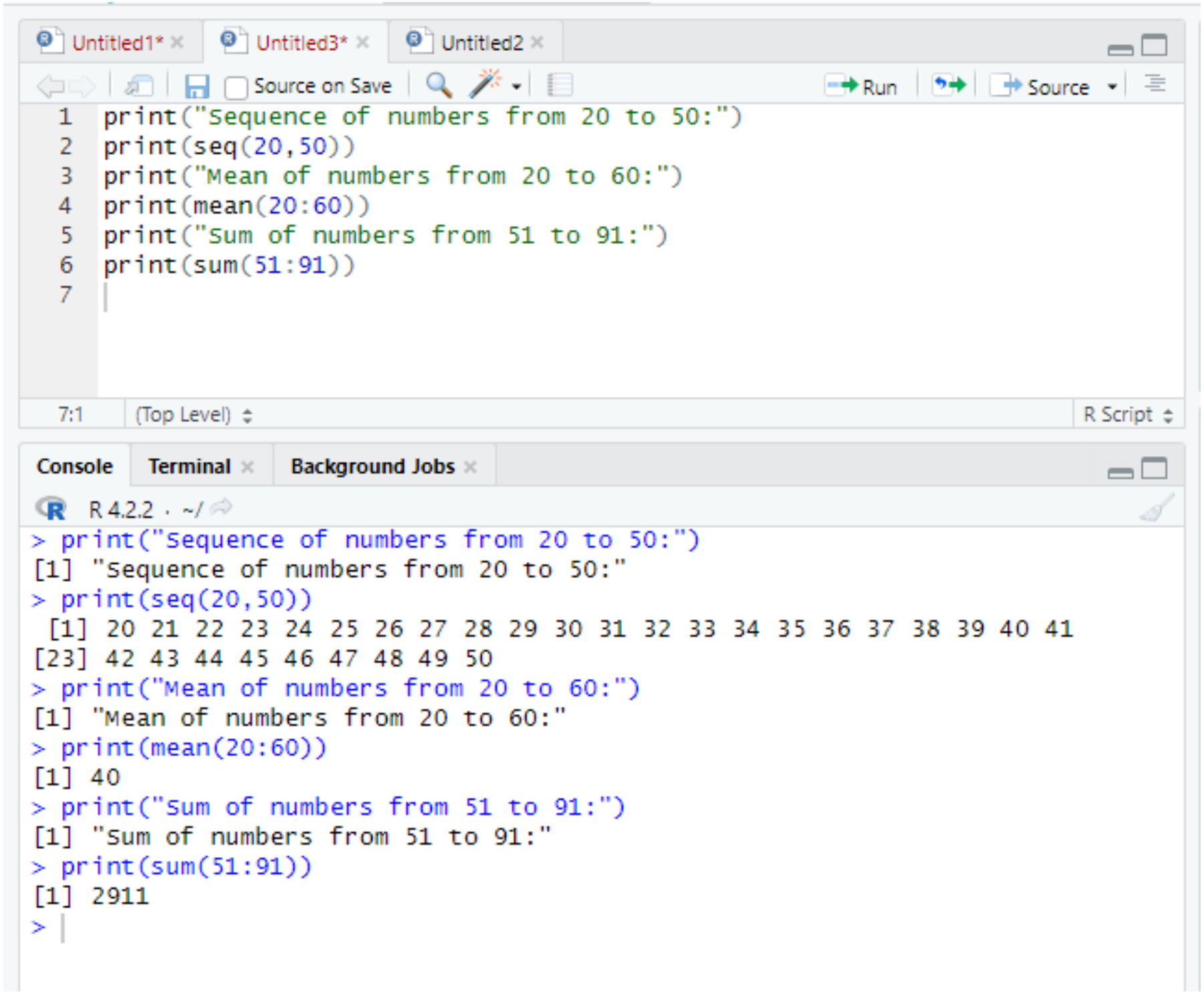
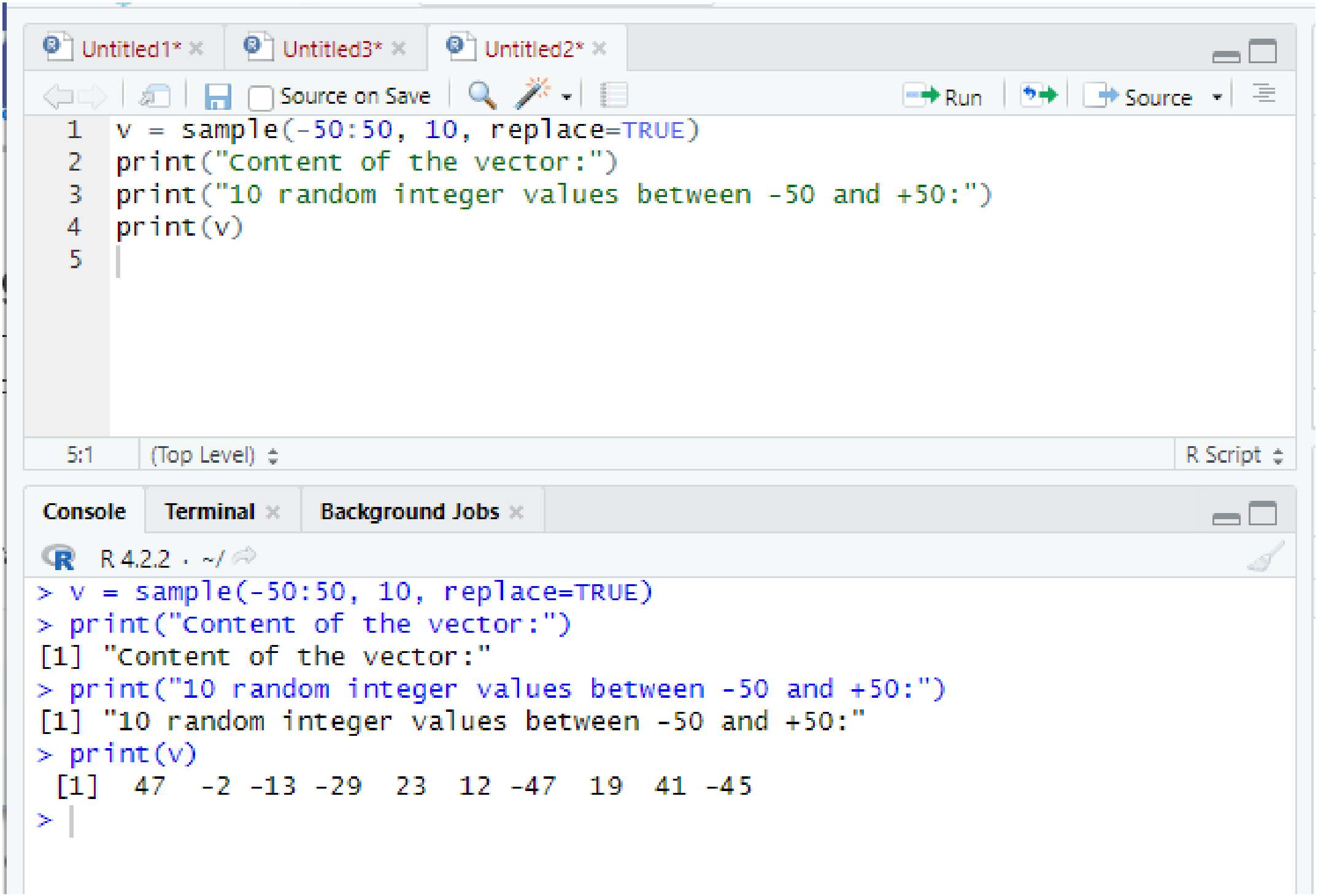
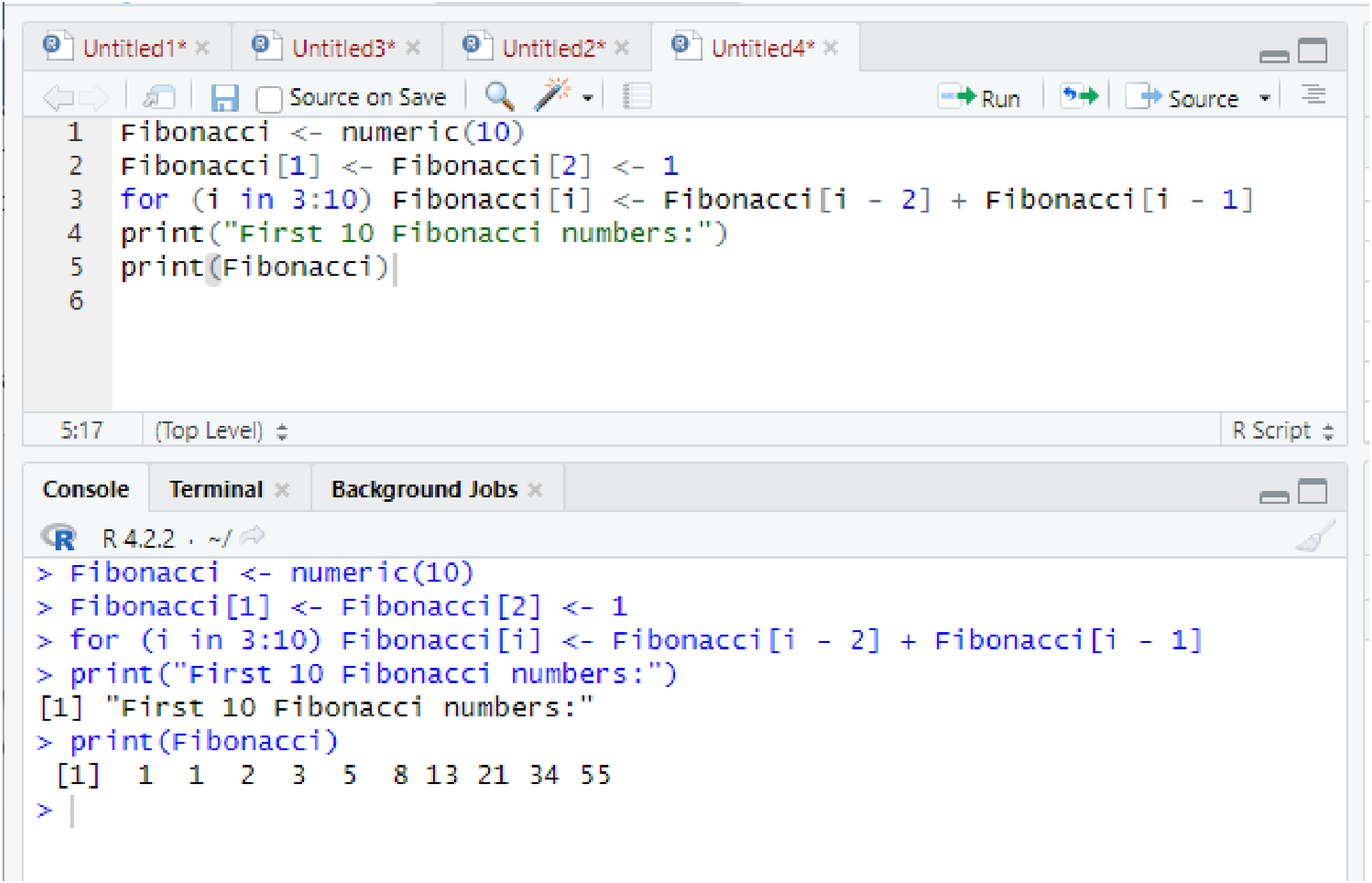
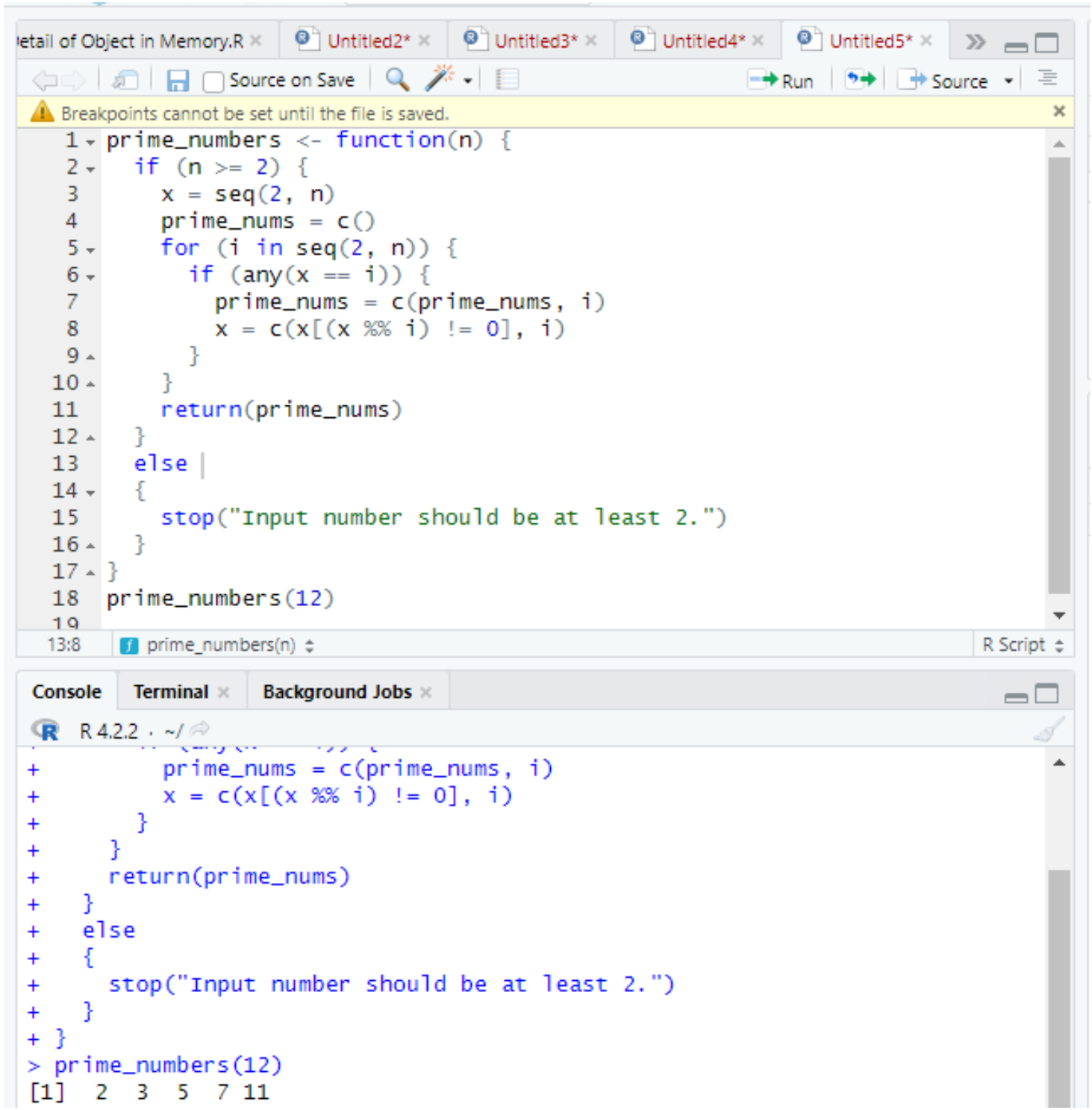

Untitled1*
Source on Save
Run
Source
1 name<-readline(prompt="Input your name: ")
2 age<- readline(prompt="Input your age: ")
3 print(paste("My name is",name, "and I am",age ,"years old."))
4 print(R.version.string)
4:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> name<-readline(prompt="Input your name: ")
Input your name: Krishna
> age<- readline(prompt="Input your age: ")
Input your age: 20
> print(paste("My name is",name, "and I am",age ,"years old."))
[1] "My name is Krishna and I am 20 years old."
> print(R.version.string)
[1] "R version 4.2.2 (2022-10-31 ucrt)"
>

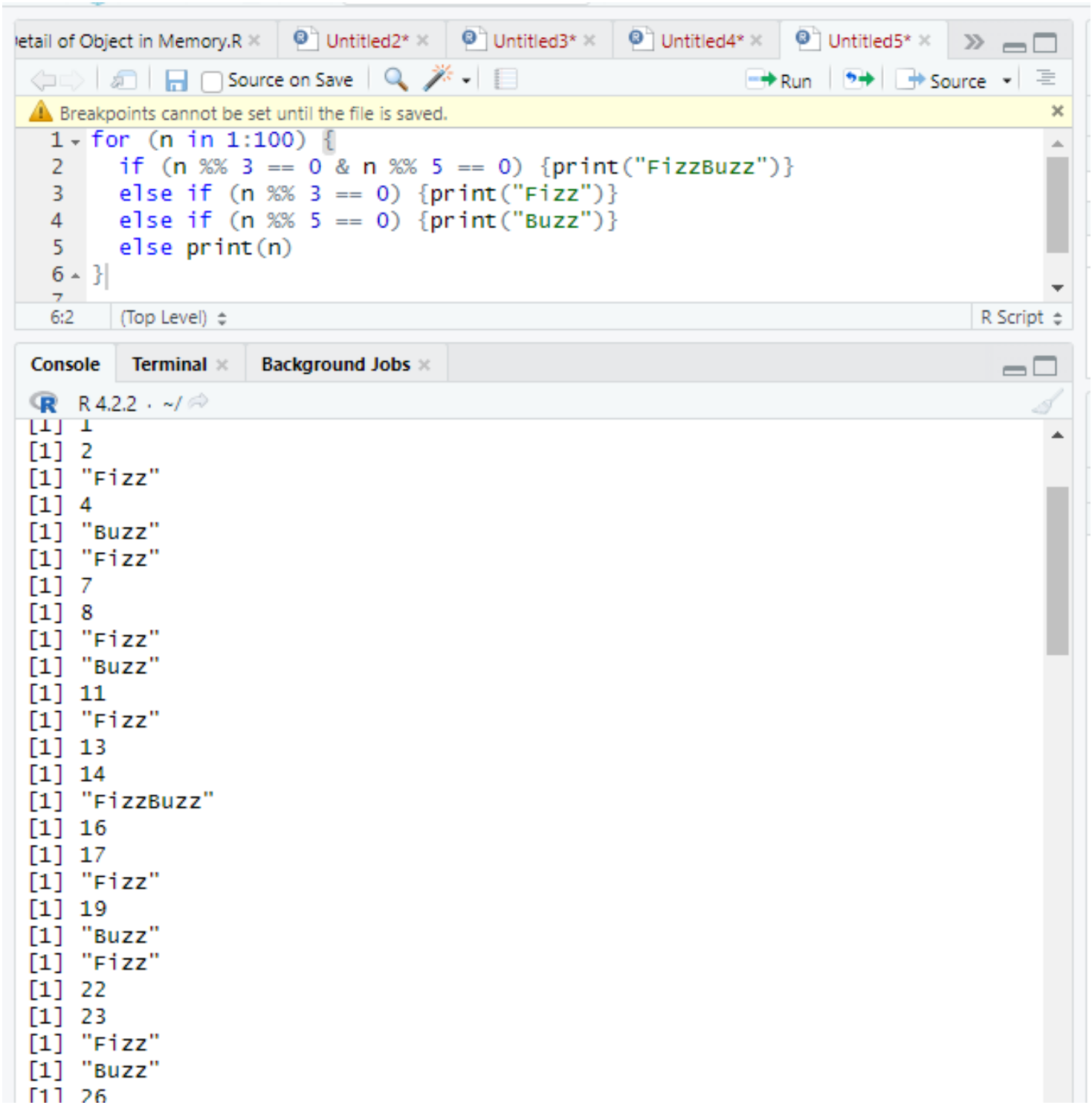

Untitled1*
Source on Save
Run
Source
1 name = "Python";
2 n1 = 10;
3 n2 = 0.5
4 nums = c(10, 20, 30, 40, 50, 60)
5 print(ls())
6 print("Details of the objects in memory:")
7 print(ls.str())
8
9
9:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> name = "Python";
> n1 = 10;
> n2 = 0.5
> nums = c(10, 20, 30, 40, 50, 60)
> print(ls())
[1] "age" "n1" "n2" "name" "nums"
> print("Details of the objects in memory:")
[1] "Details of the objects in memory:"
> print(ls.str())
age : chr "20"
n1 : num 10
n2 : num 0.5
name : chr "Python"
nums : num [1:6] 10 20 30 40 50 60
>

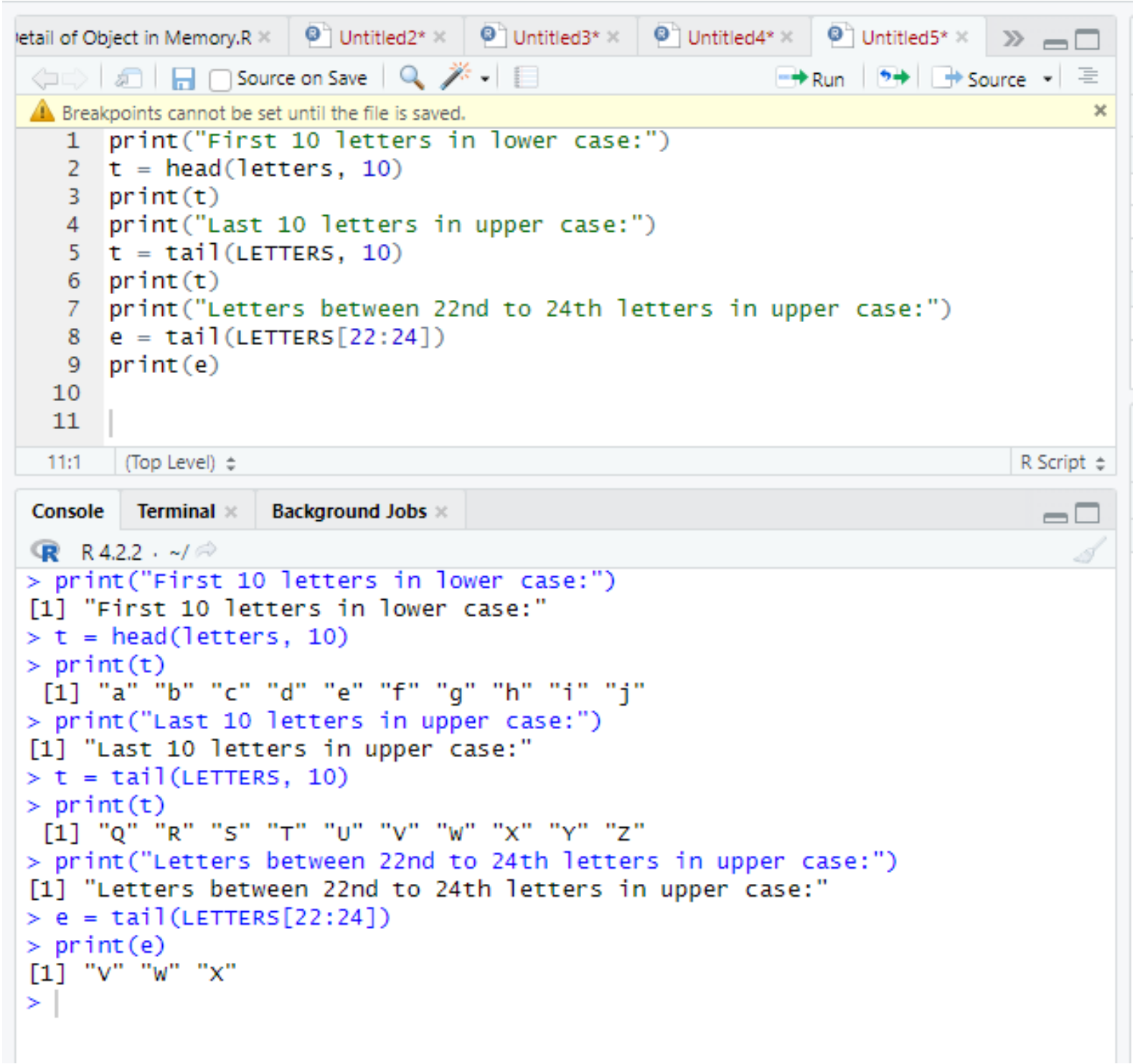

Untitled1*
Untitled3*
Untitled2
Source on Save
Run
Source
1 print("Sequence of numbers from 20 to 50:")
2 print(seq(20,50))
3 print("Mean of numbers from 20 to 60:")
4 print(mean(20:60))
5 print("Sum of numbers from 51 to 91:")
6 print(sum(51:91))
7
7:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> print("Sequence of numbers from 20 to 50:")
[1] "Sequence of numbers from 20 to 50:"
> print(seq(20,50))
[1] 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41
[23] 42 43 44 45 46 47 48 49 50
> print("Mean of numbers from 20 to 60:")
[1] "Mean of numbers from 20 to 60:"
> print(mean(20:60))
[1] 40
> print("Sum of numbers from 51 to 91:")
[1] "Sum of numbers from 51 to 91:"
> print(sum(51:91))
[1] 2911
>

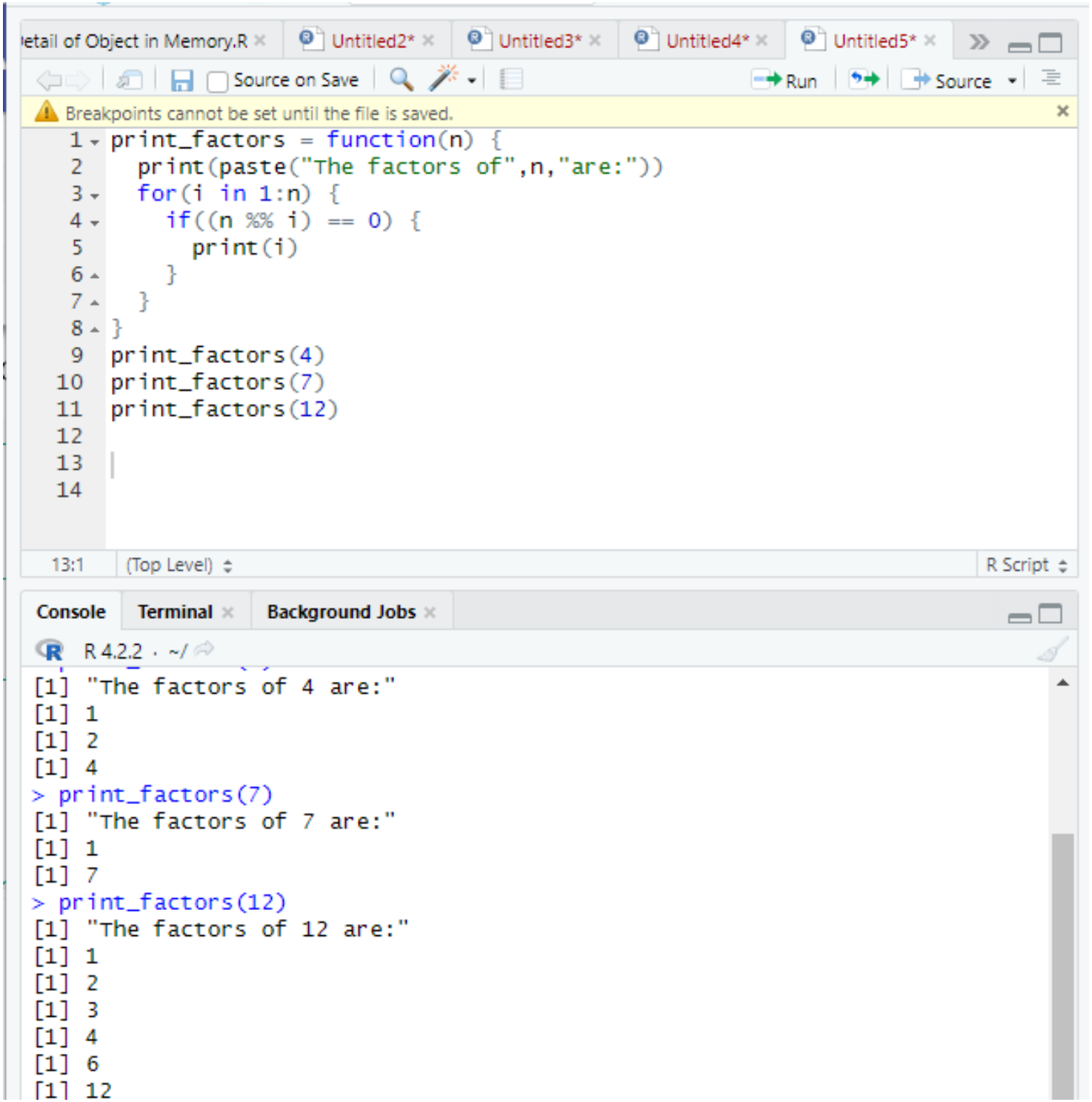

Untitled1*
Untitled3*
Untitled2*
Source on Save
Run
Source
1 v = sample(-50:50, 10, replace=TRUE)
2 print("Content of the vector:")
3 print("10 random integer values between -50 and +50:")
4 print(v)
5
5:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> v = sample(-50:50, 10, replace=TRUE)
> print("Content of the vector:")
[1] "Content of the vector:"
> print("10 random integer values between -50 and +50:")
[1] "10 random integer values between -50 and +50:"
> print(v)
[1] 47 -2 -13 -29 23 12 -47 19 41 -45
>

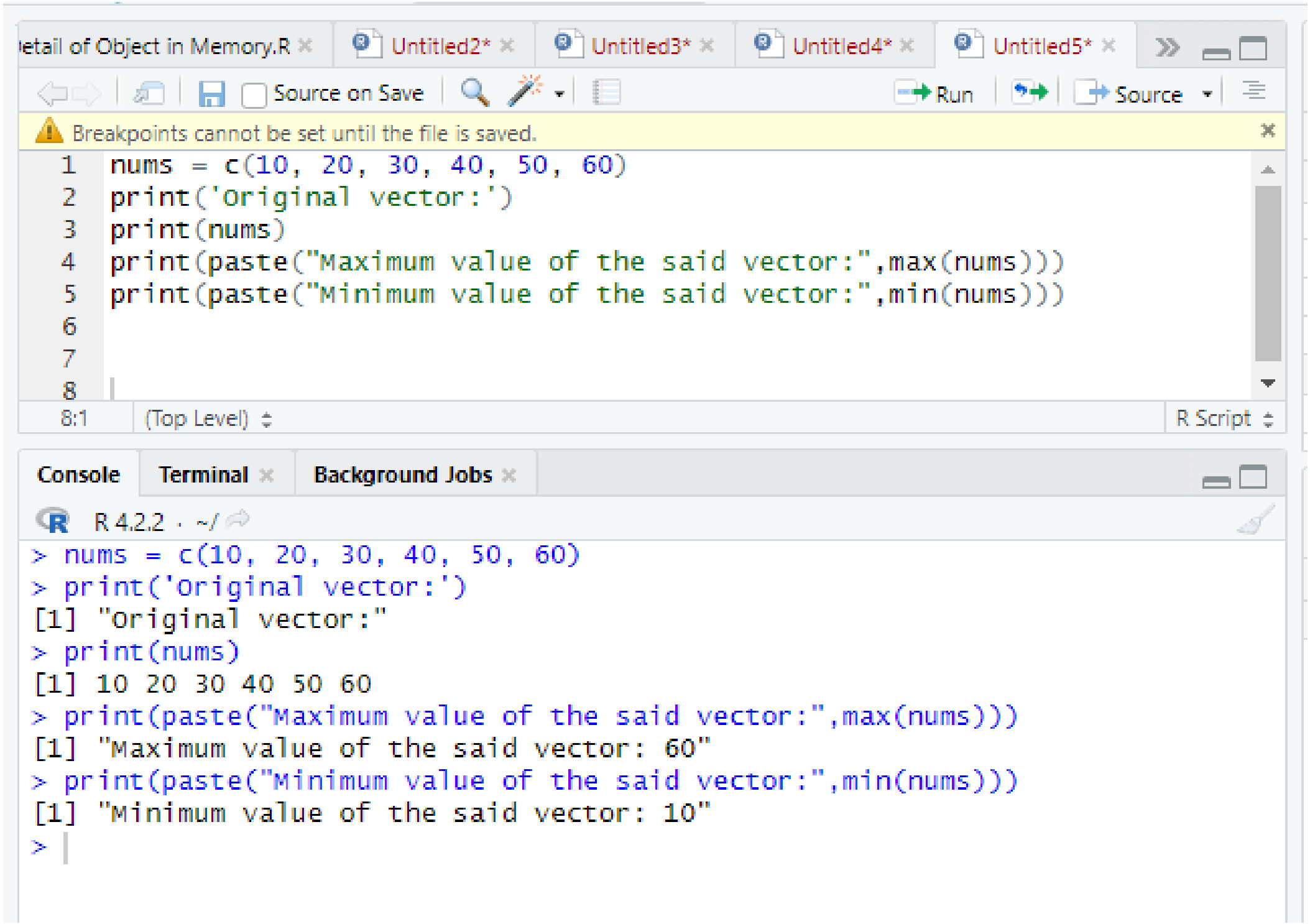

Untitled1*
Untitled3*
Untitled2*
Untitled4*
Source on Save
Run
Source
1 Fibonacci <- numeric(10)
2 Fibonacci[1] <- Fibonacci[2] <- 1
3 for (i in 3:10) Fibonacci[i] <- Fibonacci[i - 2] + Fibonacci[i - 1]
4 print("First 10 Fibonacci numbers:")
5 print(Fibonacci)
6
5:17
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> Fibonacci <- numeric(10)
> Fibonacci[1] <- Fibonacci[2] <- 1
> for (i in 3:10) Fibonacci[i] <- Fibonacci[i - 2] + Fibonacci[i - 1]
> print("First 10 Fibonacci numbers:")
[1] "First 10 Fibonacci numbers:"
> print(Fibonacci)
[1] 1 1 2 3 5 8 13 21 34 55
>

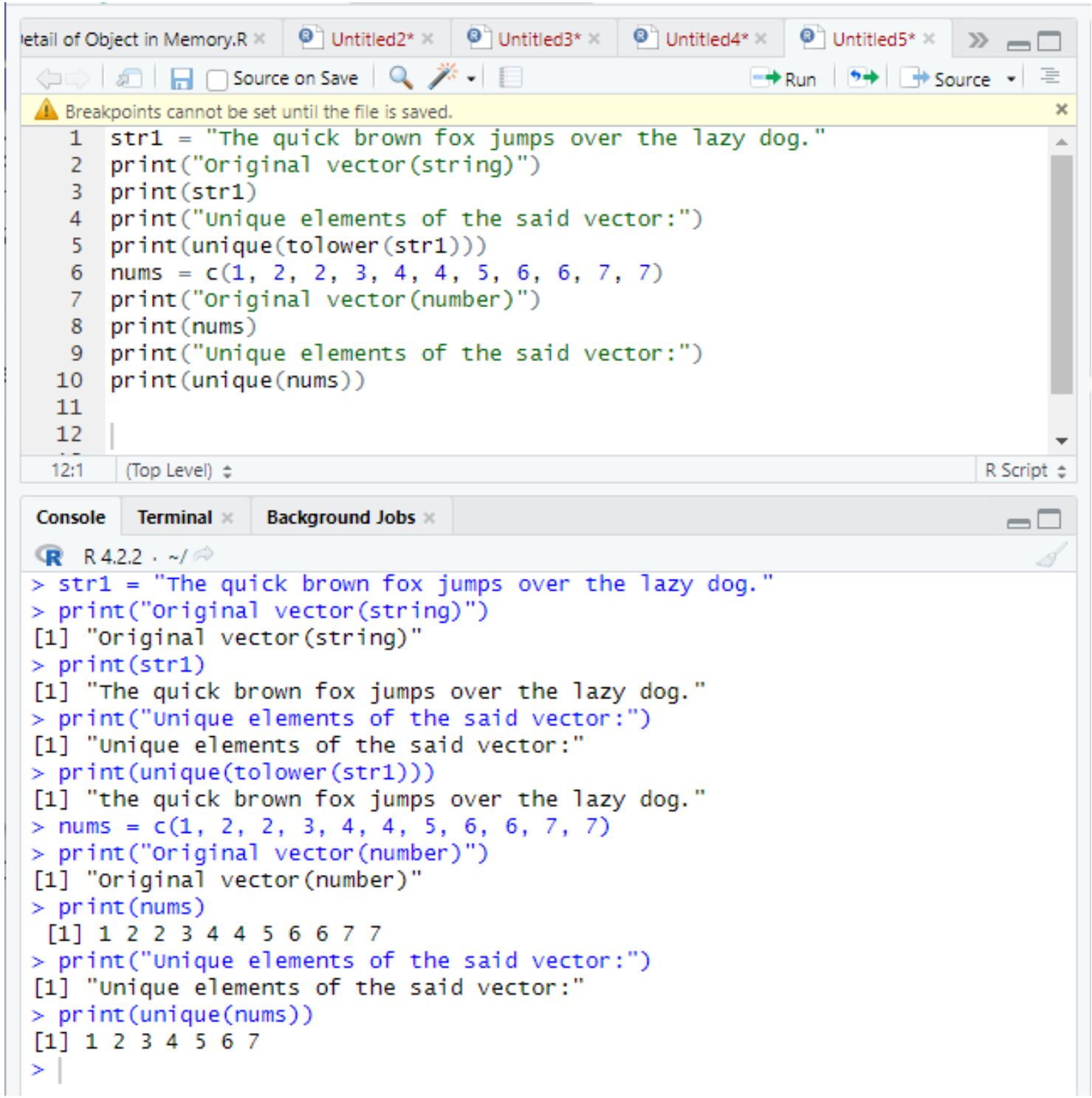

etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
prime_numbers <- function(n) {
if (n >= 2) {
x = seq(2, n)
prime_nums = c()
for (i in seq(2, n)) {
if (any(x == i)) {
prime_nums = c(prime_nums, i)
x = c(x[(x %% i) != 0], i)
}
}
return(prime_nums)
}
else
{
stop("Input number should be at least 2.")
}
}
prime_numbers(12)
13:8
prime_numbers(n)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
+ prime_nums = c(prime_nums, i)
+ x = c(x[(x %% i) != 0], i)
+ }
+ }
+ return(prime_nums)
+ }
+ else
+ {
+ stop("Input number should be at least 2.")
+ }
+ }
> prime_numbers(12)
[1] 2 3 5 7 11

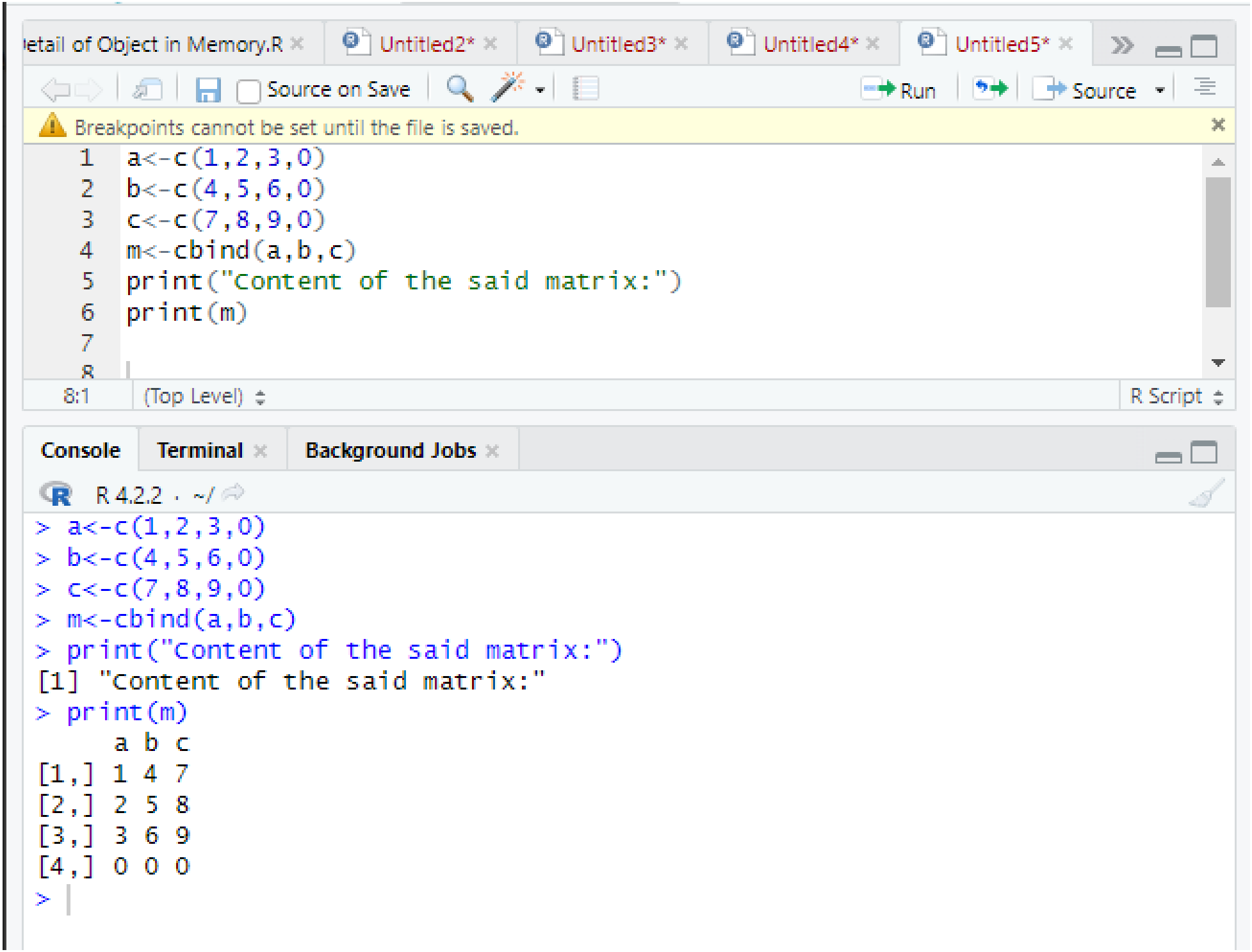

etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 for (n in 1:100) {
2 if (n %% 3 == 0 & n %% 5 == 0) {print("FizzBuzz")}
3 else if (n %% 3 == 0) {print("Fizz")}
4 else if (n %% 5 == 0) {print("Buzz")}
5 else print(n)
6 }
6:2
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
[1] 1
[1] 2
[1] "Fizz"
[1] 4
[1] "Buzz"
[1] "Fizz"
[1] 7
[1] 8
[1] "Fizz"
[1] "Buzz"
[1] 11
[1] "Fizz"
[1] 13
[1] 14
[1] "FizzBuzz"
[1] 16
[1] 17
[1] "Fizz"
[1] 19
[1] "Buzz"
[1] "Fizz"
[1] 22
[1] 23
[1] "Fizz"
[1] "Buzz"
[1] 26


etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 print("First 10 letters in lower case:")
2 t = head(letters, 10)
3 print(t)
4 print("Last 10 letters in upper case:")
5 t = tail(LETTERS, 10)
6 print(t)
7 print("Letters between 22nd to 24th letters in upper case:")
8 e = tail(LETTERS[22:24])
9 print(e)
10
11
11:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> print("First 10 letters in lower case:")
[1] "First 10 letters in lower case:"
> t = head(letters, 10)
> print(t)
[1] "a" "b" "c" "d" "e" "f" "g" "h" "i" "j"
> print("Last 10 letters in upper case:")
[1] "Last 10 letters in upper case:"
> t = tail(LETTERS, 10)
> print(t)
[1] "Q" "R" "S" "T" "U" "V" "W" "X" "Y" "Z"
> print("Letters between 22nd to 24th letters in upper case:")
[1] "Letters between 22nd to 24th letters in upper case:"
> e = tail(LETTERS[22:24])
> print(e)
[1] "V" "W" "X"
>


etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 print_factors = function(n) {
2 print(paste("The factors of",n,"are:"))
3 for(i in 1:n) {
4 if((n %% i) == 0) {
5 print(i)
6 }
7 }
8 }
9 print_factors(4)
10 print_factors(7)
11 print_factors(12)
12
13
14
13:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
[1] "The factors of 4 are:"
[1] 1
[1] 2
[1] 4
> print_factors(7)
[1] "The factors of 7 are:"
[1] 1
[1] 7
> print_factors(12)
[1] "The factors of 12 are:"
[1] 1
[1] 2
[1] 3
[1] 4
[1] 6
[1] 12


etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 nums = c(10, 20, 30, 40, 50, 60)
2 print('original vector:')
3 print(nums)
4 print(paste("Maximum value of the said vector:",max(nums)))
5 print(paste("Minimum value of the said vector:",min(nums)))
6
7
8
8:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> nums = c(10, 20, 30, 40, 50, 60)
> print('original vector:')
[1] "original vector:"
> print(nums)
[1] 10 20 30 40 50 60
> print(paste("Maximum value of the said vector:",max(nums)))
[1] "Maximum value of the said vector: 60"
> print(paste("Minimum value of the said vector:",min(nums)))
[1] "Minimum value of the said vector: 10"
>


etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 str1 = "The quick brown fox jumps over the lazy dog."
2 print("Original vector(string)")
3 print(str1)
4 print("Unique elements of the said vector:")
5 print(unique(tolower(str1)))
6 nums = c(1, 2, 2, 3, 4, 4, 5, 6, 6, 7, 7)
7 print("Original vector(number)")
8 print(nums)
9 print("Unique elements of the said vector:")
10 print(unique(nums))
11
12
12:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> str1 = "The quick brown fox jumps over the lazy dog."
> print("Original vector(string)")
[1] "Original vector(string)"
> print(str1)
[1] "The quick brown fox jumps over the lazy dog."
> print("Unique elements of the said vector:")
[1] "Unique elements of the said vector:"
> print(unique(tolower(str1)))
[1] "the quick brown fox jumps over the lazy dog."
> nums = c(1, 2, 2, 3, 4, 4, 5, 6, 6, 7, 7)
> print("Original vector(number)")
[1] "Original vector(number)"
> print(nums)
[1] 1 2 2 3 4 4 5 6 6 7 7
> print("Unique elements of the said vector:")
[1] "Unique elements of the said vector:"
> print(unique(nums))
[1] 1 2 3 4 5 6 7
>


letail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 a<-c(1,2,3,0)
2 b<-c(4,5,6,0)
3 c<-c(7,8,9,0)
4 m<-cbind(a,b,c)
5 print("Content of the said matrix:")
6 print(m)
7
8
8:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> a<-c(1,2,3,0)
> b<-c(4,5,6,0)
> c<-c(7,8,9,0)
> m<-cbind(a,b,c)
> print("Content of the said matrix:")
[1] "Content of the said matrix:"
> print(m)
a b c
[1,] 1 4 7
[2,] 2 5 8
[3,] 3 6 9
[4,] 0 0 0
>

etail of Object in Memory.R | Untitled2* | Untitled3* | Untitled4* | Untitled5*

Source on Save | Run | Source

Breakpoints cannot be set until the file is saved.

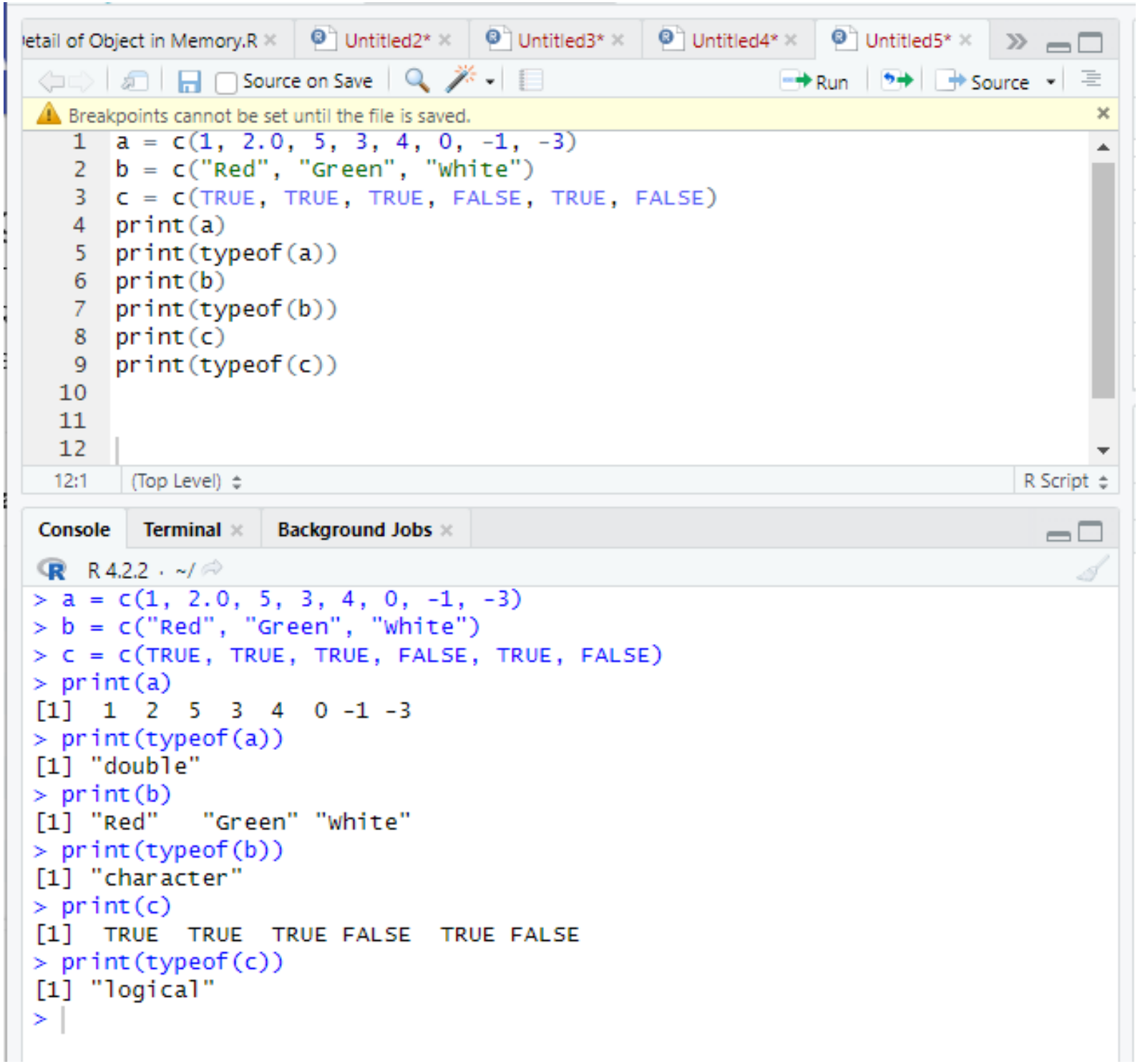
```
1  n = floor(rnorm(10000, 500, 1000))
2  print('List of random numbers in normal distribution:')
3  print(n)
4  t = table(n)
5  print("Count occurrences of each value:")
6  print(t)
7
```

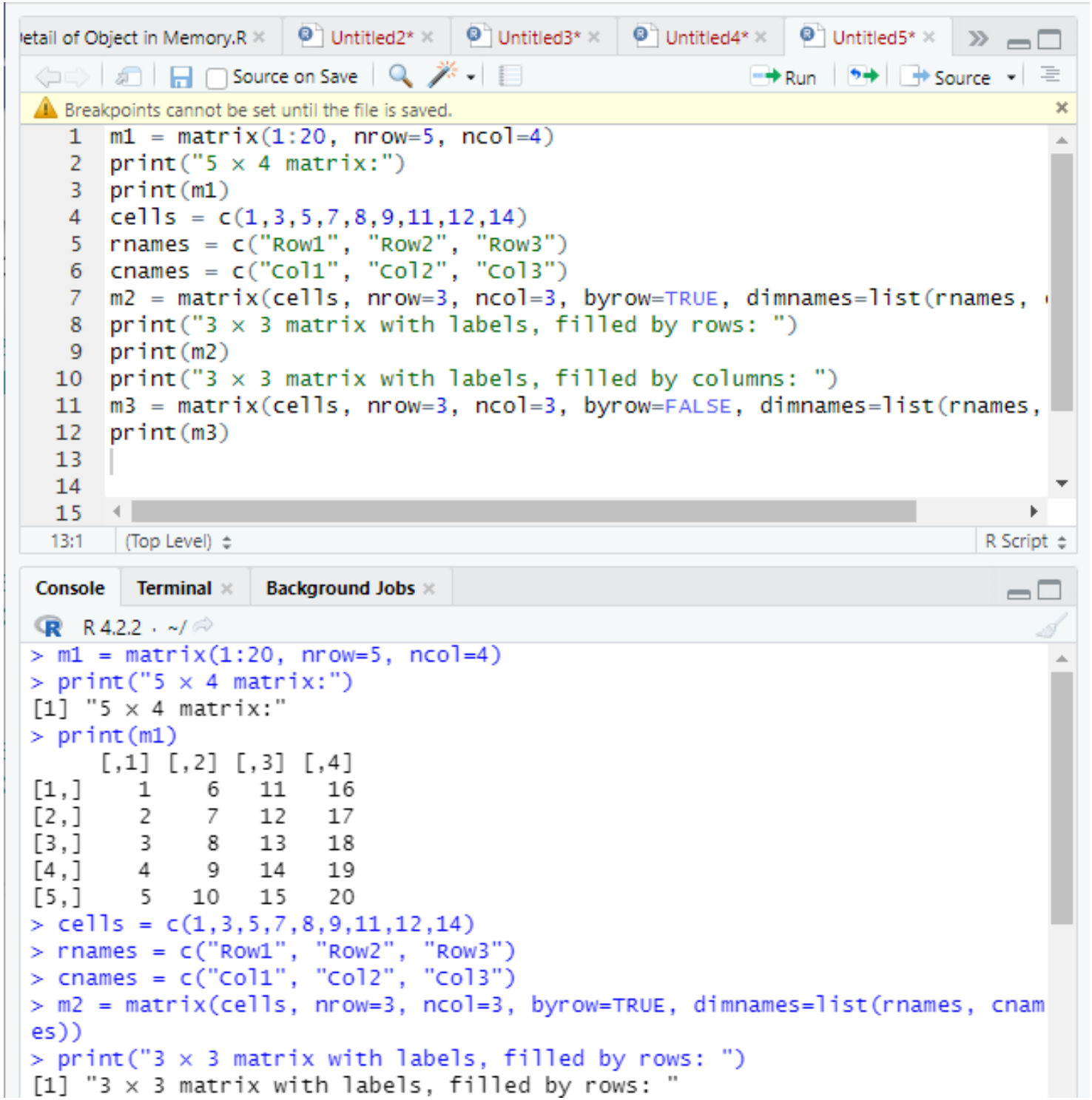
7:1 (Top Level) R Script

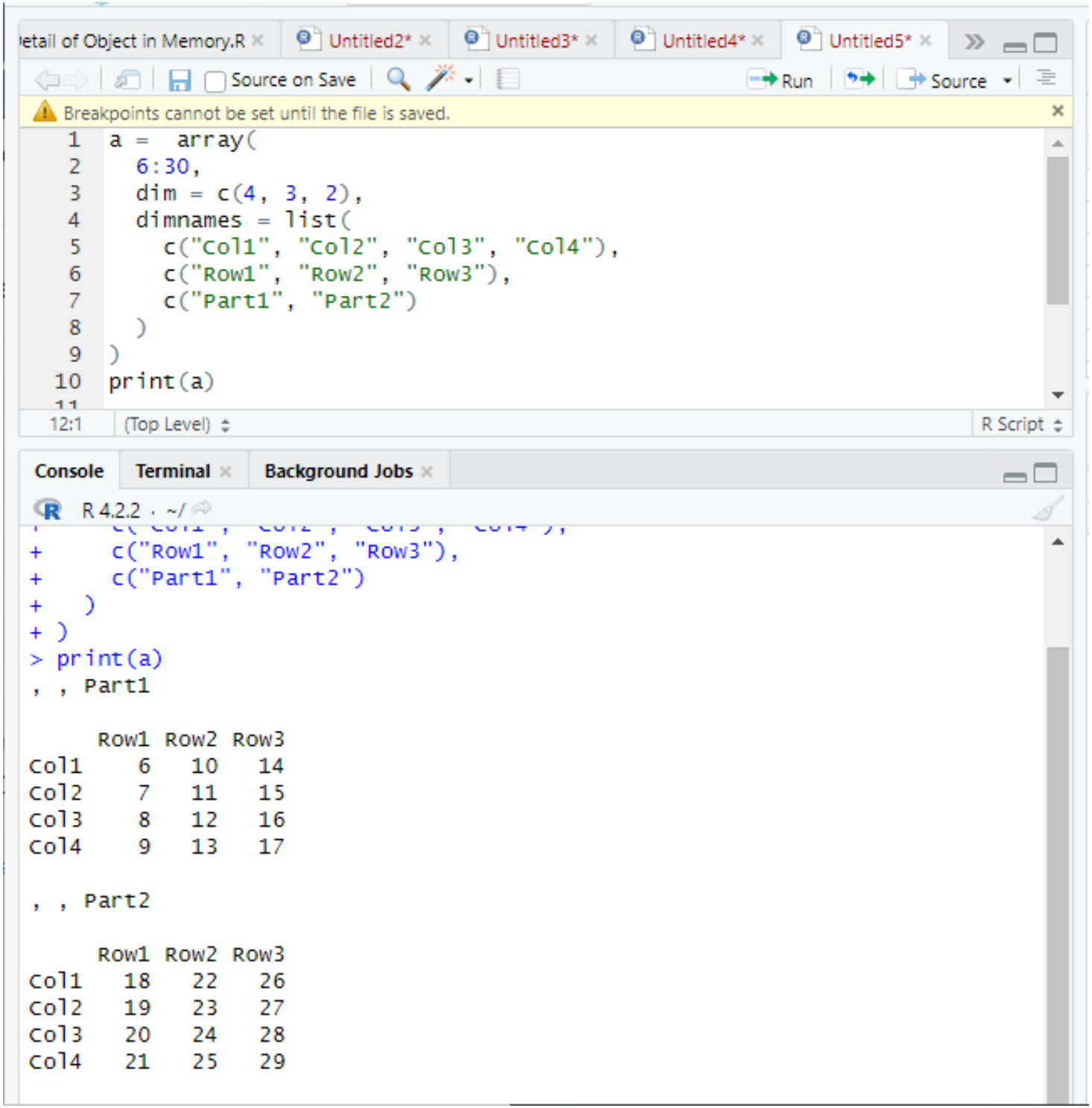
Console | Terminal | Background Jobs

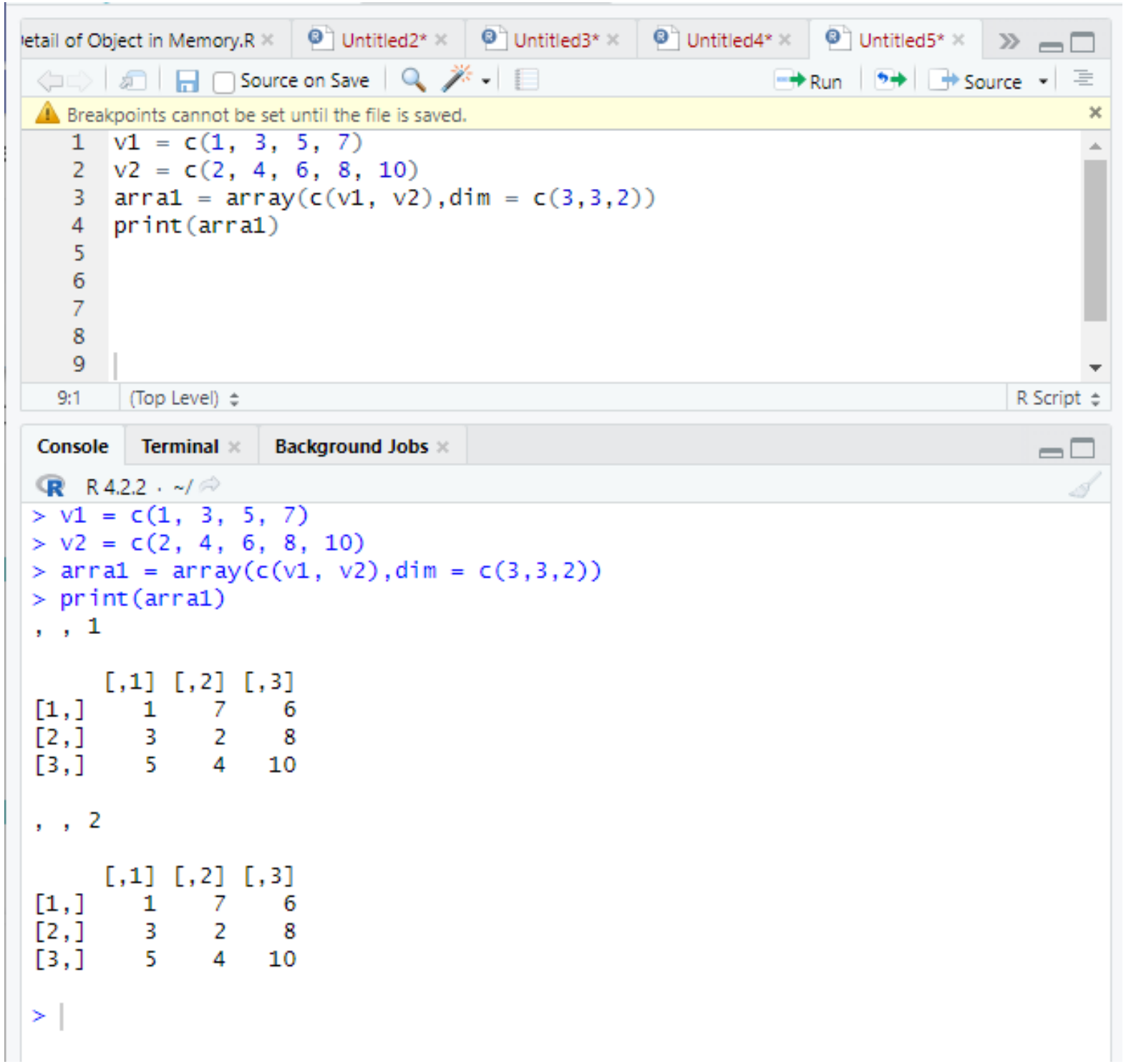
R 4.2.2 · ~/

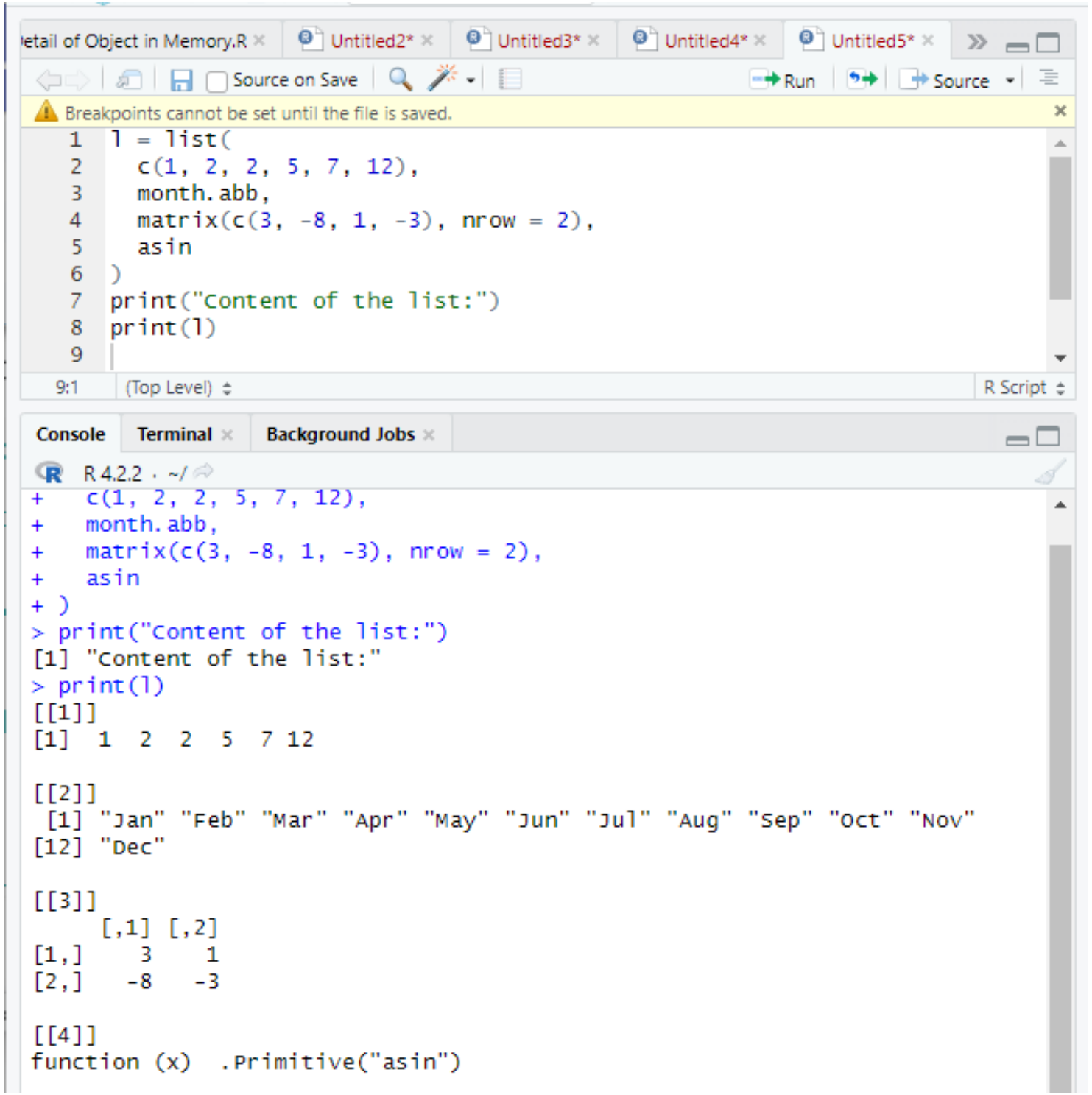
```
> n = floor(rnorm(10000, 500, 1000))
> print('List of random numbers in normal distribution:')
[1] "List of random numbers in normal distribution:"
> print(n)
   [1]   399  -154 -1377 -1276  1285   816   529    65  2332   692  -390
  [12]  1151  2651  1100  1828   446   620  1361    91  1194  1799  1387
  [23]  -181   139   400  1759   -62     9  1428  1711  1170    -8  1988
  [34]  -360  -207   816   488 -1419  -139   195   120 -1377  1363  3319
  [45]   881  1273   840 -1759   291 -1547  1789   129    46   442  1629
  [56]   623  1489  1376  2764  1483  2421  1700   145  1167   198   881
  [67]   -37   266   904   810  -700  1209 -1052  2007  1545  -580  -617
  [78]  1170  1581  -760   756  1032  1765  -269   924  2093 -1724   461
  [89] -1407  1700 -1374  1500 -2091   568  1206  1201  -184  -648   230
 [100]  1829  -680  2458   352  1283  -111  -101    36  1777  1508   191
 [111]   775   200   836  1505  -719  -146   498   185   567   735  -316
 [122]   892   561   158  -611    38   668  1996  -442  -265   -10  1535
 [133]  1597 -1624  -781 -1068  2666  -512   893   606   635   -28  1006
 [144]   290  -660  1745   -15   576 -1030  -641  1632  1692    69  -346
 [155]   757  -771   291 -2918   232  1590   -69  -687  -999   459  -308
 [166]  1452   702   -95  -304    27 -2192  2252   547    97  1848  -825
 [177]  1014  2015  1217  1488  -548  3077   755   134 -1527    -4 -1065
 [188]    43  1758  1122   779   740  1645  -778  1920  1081  2240   656
 [199]   193  1169   698  1746   685  1881  1066  1046  -247  -508  1300
 [210]   147   950   987   673  1317  -221  1447  -677   285   125  1025
 [221]   -68  1146   829  2591   531  -489  1362   517  -218    56  2401
```


etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 a = c(1, 2.0, 5, 3, 4, 0, -1, -3)
2 b = c("Red", "Green", "White")
3 c = c(TRUE, TRUE, TRUE, FALSE, TRUE, FALSE)
4 print(a)
5 print(typeof(a))
6 print(b)
7 print(typeof(b))
8 print(c)
9 print(typeof(c))
10
11
12
12:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> a = c(1, 2.0, 5, 3, 4, 0, -1, -3)
> b = c("Red", "Green", "White")
> c = c(TRUE, TRUE, TRUE, FALSE, TRUE, FALSE)
> print(a)
[1] 1 2 5 3 4 0 -1 -3
> print(typeof(a))
[1] "double"
> print(b)
[1] "Red" "Green" "White"
> print(typeof(b))
[1] "character"
> print(c)
[1] TRUE TRUE TRUE FALSE TRUE FALSE
> print(typeof(c))
[1] "logical"
>


etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 m1 = matrix(1:20, nrow=5, ncol=4)
2 print("5 x 4 matrix:")
3 print(m1)
4 cells = c(1,3,5,7,8,9,11,12,14)
5 rnames = c("Row1", "Row2", "Row3")
6 cnames = c("Col1", "Col2", "Col3")
7 m2 = matrix(cells, nrow=3, ncol=3, byrow=TRUE, dimnames=list(rnames,
8 print("3 x 3 matrix with labels, filled by rows: ")
9 print(m2)
10 print("3 x 3 matrix with labels, filled by columns: ")
11 m3 = matrix(cells, nrow=3, ncol=3, byrow=FALSE, dimnames=list(rnames,
12 print(m3)
13
14
15
13:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> m1 = matrix(1:20, nrow=5, ncol=4)
> print("5 x 4 matrix:")
[1] "5 x 4 matrix:"
> print(m1)
[,1] [,2] [,3] [,4]
[1,] 1 6 11 16
[2,] 2 7 12 17
[3,] 3 8 13 18
[4,] 4 9 14 19
[5,] 5 10 15 20
> cells = c(1,3,5,7,8,9,11,12,14)
> rnames = c("Row1", "Row2", "Row3")
> cnames = c("Col1", "Col2", "Col3")
> m2 = matrix(cells, nrow=3, ncol=3, byrow=TRUE, dimnames=list(rnames, cnam
es))
> print("3 x 3 matrix with labels, filled by rows: ")
[1] "3 x 3 matrix with labels, filled by rows: "


etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 a = array(
2 6:30,
3 dim = c(4, 3, 2),
4 dimnames = list(
5 c("Col1", "Col2", "Col3", "Col4"),
6 c("Row1", "Row2", "Row3"),
7 c("Part1", "Part2")
8)
9)
10 print(a)
12:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
+ c("Row1", "Row2", "Row3"),
+ c("Part1", "Part2")
+)
+)
> print(a)
, , Part1
Row1 Row2 Row3
Col1 6 10 14
Col2 7 11 15
Col3 8 12 16
Col4 9 13 17
, , Part2
Row1 Row2 Row3
Col1 18 22 26
Col2 19 23 27
Col3 20 24 28
Col4 21 25 29


etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 v1 = c(1, 3, 5, 7)
2 v2 = c(2, 4, 6, 8, 10)
3 arra1 = array(c(v1, v2),dim = c(3,3,2))
4 print(arra1)
5
6
7
8
9
9:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> v1 = c(1, 3, 5, 7)
> v2 = c(2, 4, 6, 8, 10)
> arra1 = array(c(v1, v2),dim = c(3,3,2))
> print(arra1)
, , 1
[,1] [,2] [,3]
[1,] 1 7 6
[2,] 3 2 8
[3,] 5 4 10
, , 2
[,1] [,2] [,3]
[1,] 1 7 6
[2,] 3 2 8
[3,] 5 4 10
>


etail of Object in Memory.R
Untitled2*
Untitled3*
Untitled4*
Untitled5*
Source on Save
Run
Source
Breakpoints cannot be set until the file is saved.
1 l = list(
2 c(1, 2, 2, 5, 7, 12),
3 month.abb,
4 matrix(c(3, -8, 1, -3), nrow = 2),
5 asin
6)
7 print("Content of the list:")
8 print(l)
9
9:1
(Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
+ c(1, 2, 2, 5, 7, 12),
+ month.abb,
+ matrix(c(3, -8, 1, -3), nrow = 2),
+ asin
+)
> print("Content of the list:")
[1] "Content of the list:"
> print(l)
[[1]]
[1] 1 2 2 5 7 12
[[2]]
[1] "Jan" "Feb" "Mar" "Apr" "May" "Jun" "Jul" "Aug" "Sep" "Oct" "Nov"
[12] "Dec"
[[3]]
[,1] [,2]
[1,] 3 1
[2,] -8 -3
[[4]]
function (x) .Primitive("asin")

```
plot.new()
plot(1, type="n", xlab="", ylab="", xlim=c(0, 20), ylim=c(0, 20))
```

```
> plot.new()
> plot(1, type="n", xlab="", ylab="", xlim=c(0, 20), ylim=c(0, 20))
>
```