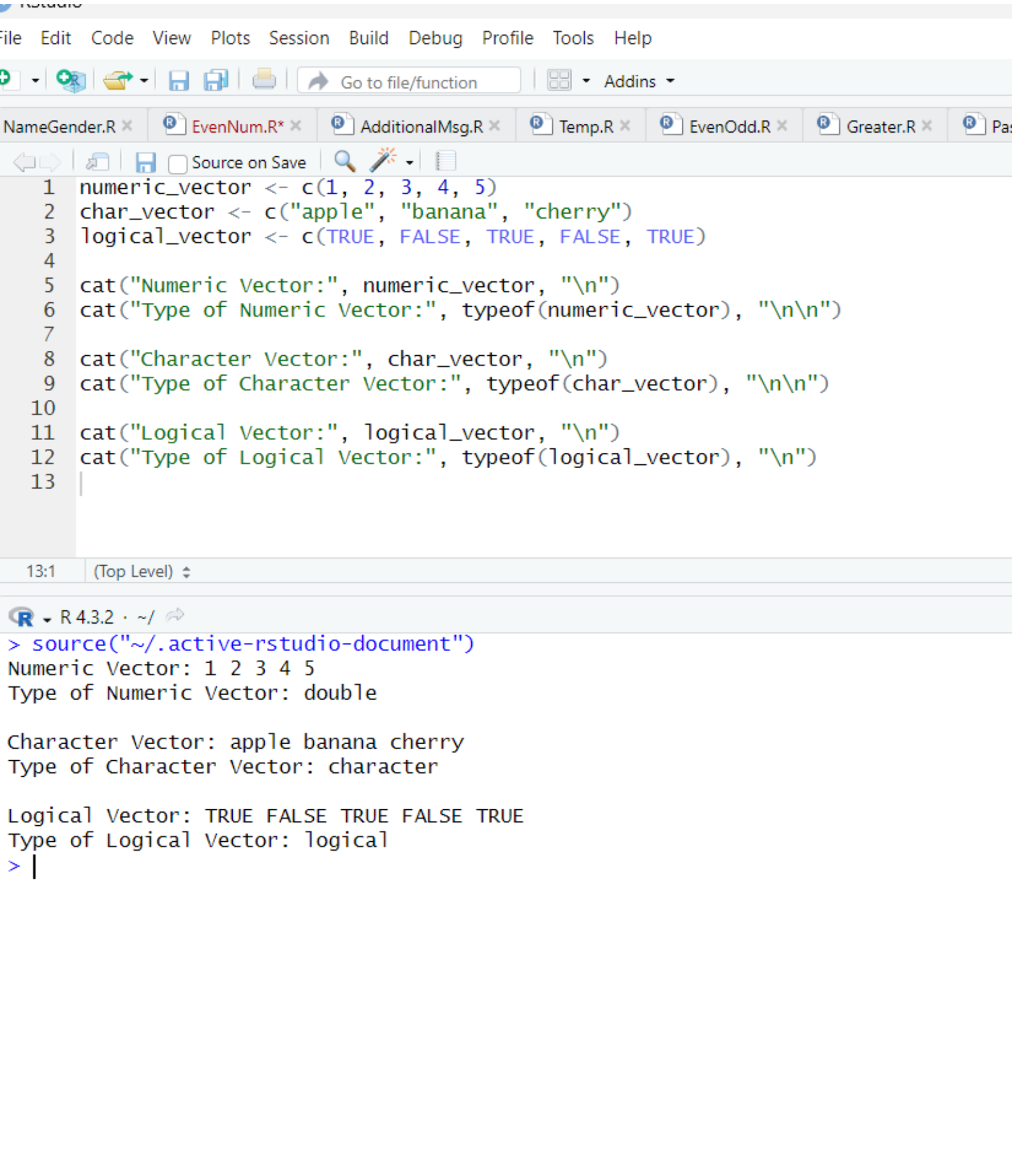

File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
NameGender.R
EvenNum.R*
AdditionalMsg.R
Temp.R
EvenOdd.R
Greater.R
Source on Save
1 numeric_vector <- c(1, 2, 3, 4, 5)
2 char_vector <- c("apple", "banana", "cherry")
3 logical_vector <- c(TRUE, FALSE, TRUE, FALSE, TRUE)
4
5 cat("Numeric Vector:", numeric_vector, "\n")
6 cat("Type of Numeric Vector:", typeof(numeric_vector), "\n\n")
7
8 cat("Character Vector:", char_vector, "\n")
9 cat("Type of Character Vector:", typeof(char_vector), "\n\n")
10
11 cat("Logical Vector:", logical_vector, "\n")
12 cat("Type of Logical Vector:", typeof(logical_vector), "\n")
13
13:1
(Top Level)
R 4.3.2 · ~/
> source("~/.active-rstudio-document")
Numeric Vector: 1 2 3 4 5
Type of Numeric Vector: double
Character Vector: apple banana cherry
Type of Character Vector: character
Logical Vector: TRUE FALSE TRUE FALSE TRUE
Type of Logical Vector: logical
>

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins

Student Marks.R* | NameGender.R | EvenNum.R* | AdditionalMsg.R | Temp.R | EvenOdd.R | Greater.R | PassMarks.R | Applyfunc.R | Untitled1*

Source on Save | Run

```
1  matrix_5x4 <- matrix(1:20, nrow = 5, ncol = 4, byrow = TRUE)
2  matrix_3x3 <- matrix(1:9, nrow = 3, ncol = 3, byrow = TRUE, dimnames = list(c("Row1", "Row2", "Row3"), c("Col1", "Col2", "Col3")))
3  matrix_2x2 <- matrix(1:4, nrow = 2, ncol = 2, byrow = FALSE, dimnames = list(c("Row1", "Row2"), c("Col1", "Col2")))
4
5  cat("5x4 Matrix (Filled by rows):\n")
6  print(matrix_5x4)
7
8  cat("\n3x3 Matrix with Labels (Filled by rows):\n")
9  print(matrix_3x3)
10
11 cat("\n2x2 Matrix with Labels (Filled by columns):\n")
12 print(matrix_2x2)
13
```

13:1 (Top Level)

R 4.3.2 · ~/

```
> source("~/.active-rstudio-document")
5x4 Matrix (Filled by rows):
     [,1] [,2] [,3] [,4]
[1,]    1    2    3    4
[2,]    5    6    7    8
[3,]    9   10   11   12
[4,]   13   14   15   16
[5,]   17   18   19   20

3x3 Matrix with Labels (Filled by rows):
     Col1 Col2 Col3
Row1    1    2    3
Row2    4    5    6
Row3    7    8    9

2x2 Matrix with Labels (Filled by columns):
     Col1 Col2
Row1    1    3
Row2    2    4
>
```

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins

Student Marks.R* | NameGender.R | EvenNum.R* | AdditionalMsg.R | Temp.R | EvenOdd.R | Greater.R | PassMarks.R | Applyfunc.R | Untitled1*

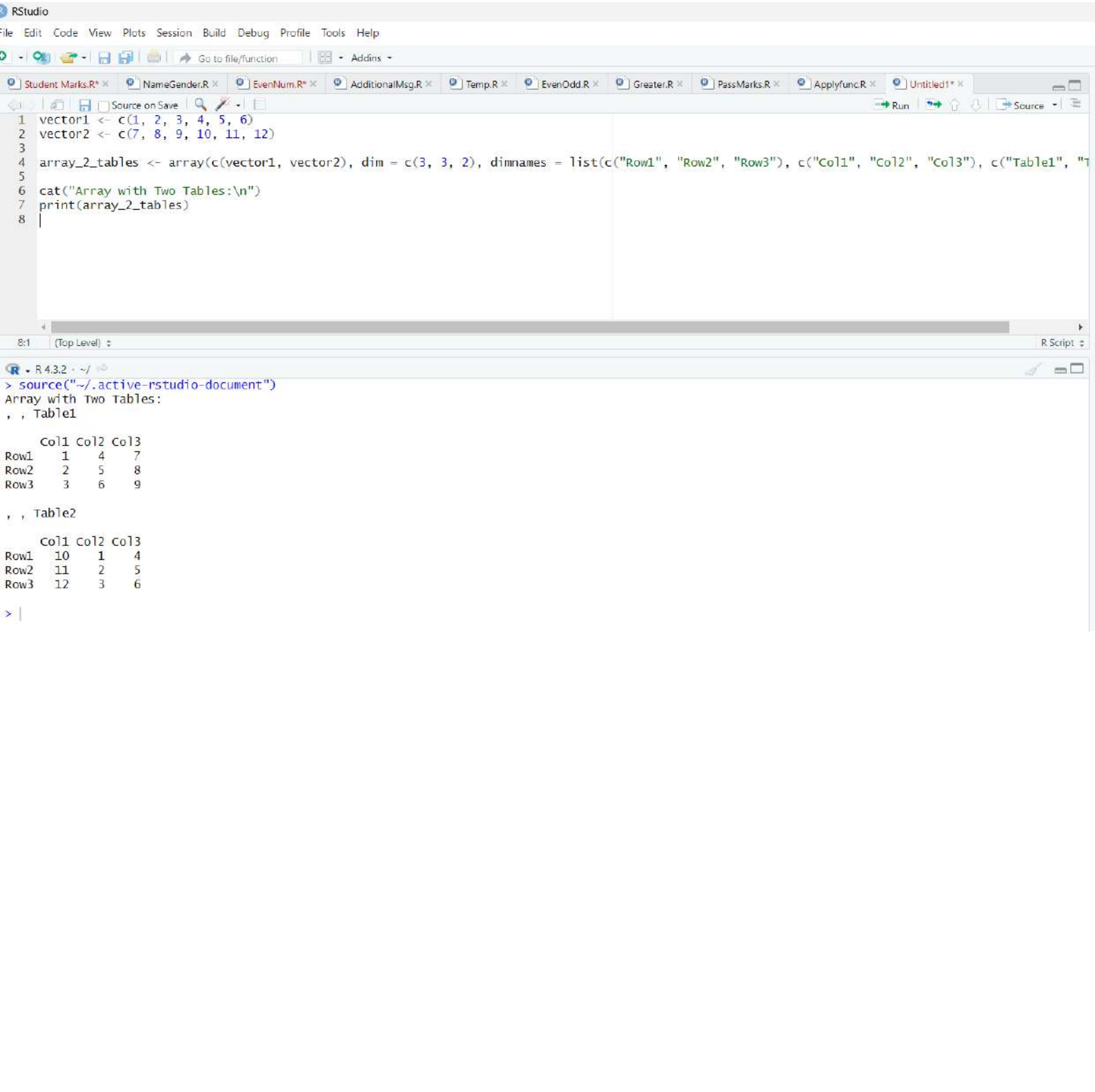
Source on Save | Run | Source

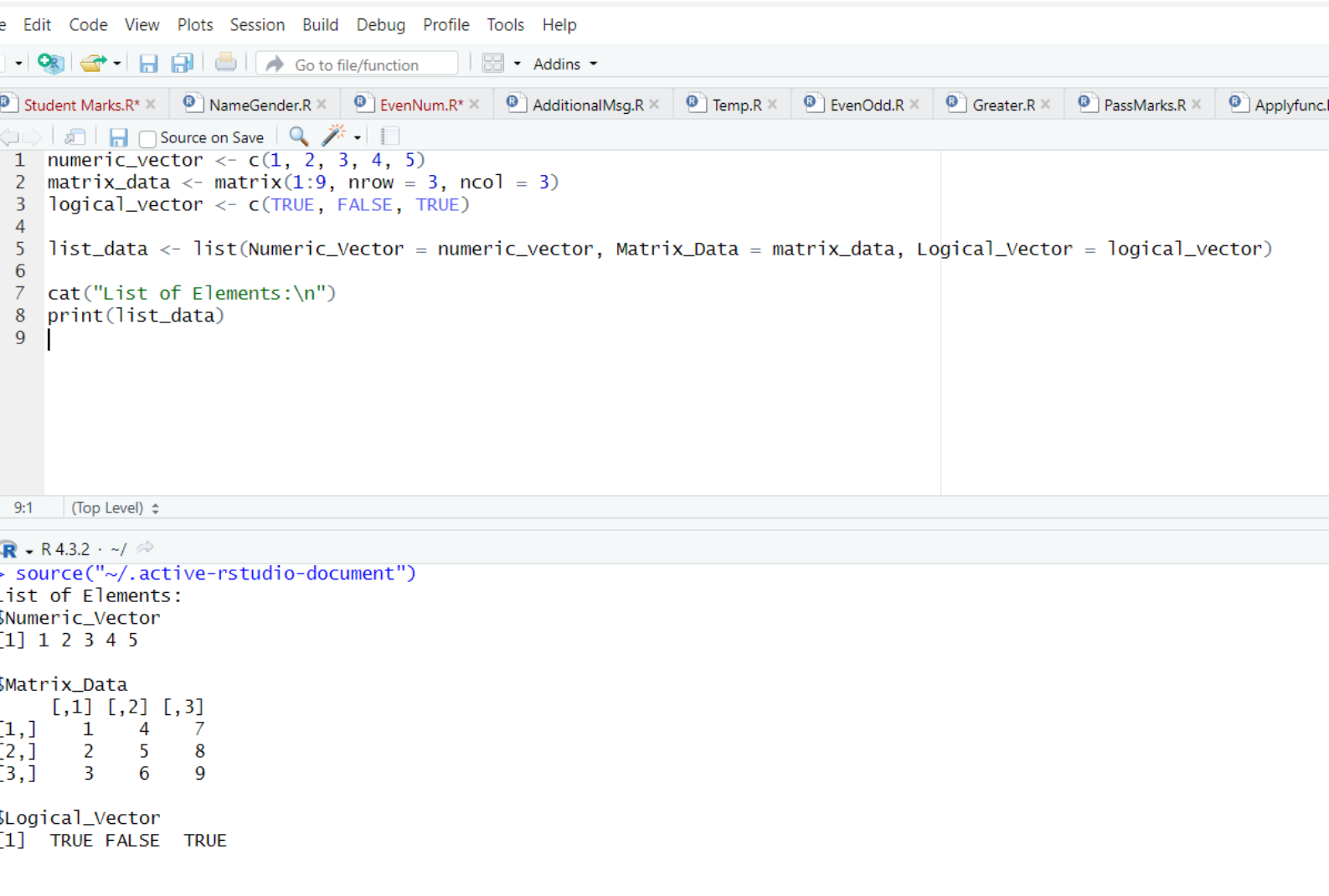
```
1  array_data <- c(1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)
2  array_dimensions <- c(3, 2, 2)
3
4  array_3d <- array(array_data, dim = array_dimensions, dimnames = list(c("Row1", "Row2", "Row3"), c("Col1", "Col2"), c("Table1", "Table2")))
5
6  cat("3D Array:\n")
7  print(array_3d)
8
```

8:1 (Top Level)

R 4.3.2 · ~/

```
> source("~/.active-rstudio-document")
3D Array:
, , Table1

     Col1 Col2
Row1    1    4
Row2    2    5
Row3    3    6

, , Table2

     Col1 Col2
Row1    7   10
Row2    8   11
Row3    9   12

>
```


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
Student Marks.R*
NameGender.R
EvenNum.R*
AdditionalMsg.R
Temp.R
EvenOdd.R
Greater.R
PassMarks.R
Applyfunc.R
Untitled1*
Source on Save
Run
Source
1 vector1 <- c(1, 2, 3, 4, 5, 6)
2 vector2 <- c(7, 8, 9, 10, 11, 12)
3
4 array_2_tables <- array(c(vector1, vector2), dim = c(3, 3, 2), dimnames = list(c("Row1", "Row2", "Row3"), c("Col1", "Col2", "Col3"), c("Table1", "T
5
6 cat("Array with Two Tables:\n")
7 print(array_2_tables)
8
8:1
(Top Level)
R Script
R 4.3.2 · ~/
> source("~/.active-rstudio-document")
Array with Two Tables:
, , Table1
Col1 Col2 Col3
Row1 1 4 7
Row2 2 5 8
Row3 3 6 9
, , Table2
Col1 Col2 Col3
Row1 10 1 4
Row2 11 2 5
Row3 12 3 6
>


Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
Student Marks.R*
NameGender.R
EvenNum.R*
AdditionalMsg.R
Temp.R
EvenOdd.R
Greater.R
PassMarks.R
Source on Save
numeric_vector <- c(1, 2, 3, 4, 5)
matrix_data <- matrix(1:9, nrow = 3, ncol = 3)
logical_vector <- c(TRUE, FALSE, TRUE)
list_data <- list(Numeric_Vector = numeric_vector, Matrix_Data = matrix_data, Logical_Vector = logical_vector)
cat("List of Elements:\n")
print(list_data)
9:1
(Top Level)
R 4.3.2 · ~/
> source("~/.active-rstudio-document")
List of Elements:
$Numeric_Vector
[1] 1 2 3 4 5
$Matrix_Data
[,1] [,2] [,3]
[1,] 1 4 7
[2,] 2 5 8
[3,] 3 6 9
$Logical_Vector
[1] TRUE FALSE TRUE