

Unit 6 - Week 5 - Vector indexing, factors, Data management with strings, display and formatting.

Course outline
How to access the portal
Week 1 - Basic fundamentals, installation and use of software, data editing, use of R as a calculator, functions and assignments.
Week 2 - Use of R as a calculator, functions and matrix operations, missing data and logical operators.
Week 3 - Conditional executions and loops, data management with sequences.
Week 4 - Data management with repeats, sorting, ordering, and lists
Week 5 - Vector indexing, factors, Data management with strings, display and formatting.
<ul style="list-style-type: none"> Lecture 24: Strings - Display and Formatting, Print and Format Functions Lecture 25: Strings - Display and Formatting, Print and Format with Concatenate Lecture 26: Strings - Display and Formatting, Paste Function Lecture 27: Strings - Display and Formatting, Splitting Lecture 28: Strings - Display and Formatting, Replacement, Manipulations _Alphabets Lecture 29: Strings - Display and Formatting, Replacement and Evaluation of Strings Quiz : Assignment 5 Assignment 5 Solution Feedback Form
Week 6 - Data management with display paste, split, find and replacement, manipulations with alphabets, evaluation of strings, data frames.
Week 8 - Data frames, import of external data in various file formats, statistical functions, compilation of data.
Week 8 - Graphics and plots, statistical functions for central tendency, variation, skewness and kurtosis, handling of bivariate data through graphics, correlations, programming and illustration with examples.
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Assignment 5

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-10-02, 23:59 IST.

- 1) Which one of the following is the correct outcome of the command `print(2/3,digits=6)` ? 1 point
- [1] 0.66667
- [1] 0.6667
- [1] 0.666667
- [1] 2.33333
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] 0.666667
- 2) Which one of the following is the correct outcome of the command `print("The average marks in biology is", mean(12,18,25,12,14),"in final year.",digits=5)` ? 1 point
- [1] "The average marks in biology is" mean(12,18,25,12,14) "in final year."
- [1] The average marks in biology is 12.000 in final year.
- [1] "The average marks in biology is"
- [1] The average marks in biology is mean(12,18,25,12,14) in final year.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "The average marks in biology is"
- 3) Which one of the following is the correct outcome of the command `print("The average marks in biology is"); print(mean(12,18,25,12,14)); print("in final year.")` ? 1 point
- [1] "The average marks in biology is" 12 "in final year."
- [1] "The average marks in biology is"
- [1] 12
- [1] "in final year."
- [1] The average marks in biology is mean(12,18,25,12,14) in final year.
- [1] The average marks in biology is 12 in final year.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "The average marks in biology is"
- [1] 12
- [1] "in final year."
- 4) Let `x <- 'My institute is Indian Institute of Technology Kanpur'\n` then which one of the following are the respective correct outcome of the commands `print(x)` and `cat(x)`? 1 point
- [1] My institute is Indian Institute of Technology Kanpur!\n
- and
- [1] My institute is Indian Institute of Technology Kanpur!\n
- [1] "My institute is Indian Institute of Technology Kanpur!"
- and
- [1] "My institute is Indian Institute of Technology Kanpur!"
- and
- [1] My institute is Indian Institute of Technology Kanpur!\n
- and
- [1] " My institute is Indian Institute of Technology Kanpur!\n"
- and
- [1] My institute is Indian Institute of Technology Kanpur!
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] " My institute is Indian Institute of Technology Kanpur!\n"
- and
- [1] My institute is Indian Institute of Technology Kanpur!
- 5) Which one of the following is the correct outcome of the command `print(paste("IIT Kanpur has", 10^4*6,"students"))` ? 1 point
- [1] "IIT Kanpur has" 10^4 "students" "R course has" 10^5 "students" "R course has" 10^6 "students"
- [1] "IIT Kanpur has 40 students" "IIT Kanpur has 50 students" "IIT Kanpur has 60 students"
- [1] "IIT Kanpur has" 10^4 10^5 10^6 "students"
- [1] IIT Kanpur has 40 students R course has 50 students R course has 60 students
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "IIT Kanpur has 40 students" "IIT Kanpur has 50 students" "IIT Kanpur has 60 students"
- 6) Which one of the following is the correct outcome of the commands `x <- 3375`
`y <- 121`
`cat("The cube root of", "x", "is", x^(1/3), "and the square root of y is", sqrt(y), "\n")` ? 1 point
- The cube root of 3375 is 6 and the square root of 121 is 11 !
- The cube root of x is sqrt(x) and the square root of y is y^(1/3) !
- "The cube root of" "x" "is" 15 "and the square root of y is" 11 !\n
- The cube root of x is 15 and the square root of y is 11 !
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] The cube root of x is 15 and the square root of y is 11 !
- 7) Which one of the following is the correct outcome of the command `x <- 130`
`cat("The approximate value of cube root of", x, "is", format(x^(1/3),digits=4),"\n")` ? 1 point
- "The approximate value of cube root of 130 is 5.066"
- "The approximate value of cube root of x is 5.06"
- The approximate value of cube root of 130 is 5.066
- The approximate value of cube root of x is 5.067
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] The approximate value of cube root of 130 is 5.066
- 8) Which one of the following is the correct outcome of the command `paste("The rents of 3 flats are", c("28 thousands per month", "29 thousands per month", "30 thousands per month"), collapse=", and d ")` ? 1 point
- [1] "The rents of 3 flats are 18 thousands per month, 19 thousands per month and 20 thousands per month"
- [1] "The rents of 3 flats are 28 thousands per month, and The rents of 3 flats are 29 thousands per month, and The rents of 3 flats are 30 thousands per month"
- [1] "The rents of 3 students are 28 thousands per month, and 29 thousands per month, and 30 thousands per month"
- [1] "The age of 3 students are 28, 29 and 30 thousands per month"
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "The rents of 3 flats are 28 thousands per month, and The rents of 3 flats are 29 thousands per month, and The rents of 3 flats are 30 thousands per month"
- 9) Which one of the following is the correct outcome of the command `paste("Students in rows 1, 2 and 3 are", 70:72, sep=":,:)")` ? 1 point
- [1] "Students in rows 1 are:-70" "Students in rows 2 are:-71" "Students in rows 3 are:-72"
- [1] "Students in rows 1, 2 and 3 are:-70:72" "Students in rows 1, 2 and 3 are:-70:72" "Students in rows 1, 2 and 3 are:-70:72"
- [1] "Students in rows 1, 2 and 3 are:-:72" "Students in rows 1, 2 and 3 are:-:72" "Students in rows 1, 2 and 3 are:-:72"
- [1] "Students in rows 1, 2 and 3 are:-:70" "Students in rows 1, 2 and 3 are:-:71" "Students in rows 1, 2 and 3 are:-:72"
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "Students in rows 1, 2 and 3 are:-:70" "Students in rows 1, 2 and 3 are:-:71" "Students in rows 1, 2 and 3 are:-:72"
- 10) Which one of the following is the correct outcome of the command `paste("Total number of students in colleges are", 2000:2002, sep="+",collapse="*")` ? 1 point
- [1] "Total number of students in colleges are+2000*Total number of students in colleges are+2001*Total number of students in colleges are+2002"
- [1] "Total number of students in colleges are+2000*+2001*+2002*"
- [1] "Total number of students in colleges are+2000 are *6003"
- [1] "Total number of students in colleges are 2000" *+* "Total number of students in colleges are 2001" *+* "Total number of students in colleges are 2002"
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "Total number of students in colleges are+2000*Total number of students in colleges are+2001*Total number of students in colleges are+2002"
- 11) Which one of the following is the correct outcome of `y` where `y=strsplit("Students of Class 1:#: Students of Class 2:#: Students of Class 3",":#:")` ? 1 point
- [1]
- [1] "Students of Class 1:#:2:#:3"
- [1]
- [1]
- Students of Class 1, Students of Class 2, Students of Class 3,
- [1]
- [1] "Students of Class 1" " Students of Class 2" " Students of Class 3"
- [1]
- [1] " Students of Class 1":#: " Students of Class 2":#: " Students of Class 3"
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1]
- [1] "Students of Class 1" " Students of Class 2" " Students of Class 3"
- 12) Let `y=strsplit("Students of Class 1:#: Students of Class 2:#: Students of Class 3",":#:")` Which one of the following is the correct command to get the outcome of `y` as "Students of Class 2" ? 1 point
- y[1][2]
- y[2][1]
- y[1][2]
- [2][1]
- No, the answer is incorrect.
Score: 0
Accepted Answers:
y[1][2]
- 13) Which one of the following is the correct outcome of the command `nchar("Swayam Benefits Best-in-Class Instructors Empowering you with knowledge and skills.")` ? 1 point
- 88
- 87
- 86
- 84
- No, the answer is incorrect.
Score: 0
Accepted Answers:
84
- 14) Which one of the following is the correct outcome of the command `sub("8", "16", "An Introduction to R Software Course under Swayam will be of 8 weeks duration")` ? 1 point
- [1] "An Introduction to R Software Course under Swayam will be of 8 weeks duration"
- [1] "An Introduction to R Software Course under Swayam will be of 16 weeks duration"
- [1] "An Introduction to R Software Course under Swayam will be of 8-16 weeks duration"
- [1] "An Introduction to R Software Course under Swayam will be of 8, 16 weeks duration"
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "An Introduction to R Software Course under Swayam will be of 16 weeks duration"
- 15) Which one of the following is the correct outcome of the command `gsub("Students in College 1", "Students in College 2", "College 1 - 2500. College 2 - 3000")` ? 1 point
- [1] "College 1 - 2500. College 2 - 3000"
- [1] "Students in College 1 - 2500." " Students in College 1 - 3000"
- [1] "Students in College 2 - 2500." " Students in College 2 - 3000"
- [1] "Students in College 2 - 2500." " College 1 - 3000"
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "College 1 - 2500. College 2 - 3000"
- 16) Which one of the following is the correct outcome of the command `tolower("InDIan InStItUe Of TEchNOloGY KANpuR")` ? 1 point
- [1] "Indian Institute Of Technology Kanpur")
- [1] "indian institute of technology kanpur"
- [1] "nDIAn InStItUe Of TEchNOlUr")
- [1] "kANpuR TEchNOloGY Of InStItUe InDIan")
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "indian institute of technology kanpur"
- 17) Which one of the following is the correct outcome of the command `toupper("Institute Of National Importance in Indian States")` ? 1 point
- [1] "Institute of national importance in indian states"
- [1] "INSTITUTE oF nAtIONAL IMPORTANCE IN INDIAN sTATES"
- [1] "INSTITUTE OF NATIONAL IMPORTANCE IN INDIAN STATES"
- [1] "Institute Of National Importance in Indian States"
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] "INSTITUTE OF NATIONAL IMPORTANCE IN INDIAN STATES"
- 18) Which one of the following is the correct outcome of the command `grep("baedc", c("baedec", "bacf", "cbbacdea", "adcedaba", "baedcedab"))` ? 1 point
- [1] "baedec", "cbbacdea", "baedcedab"
- [1] "bacf"
- [1] 1 3 5
- [1] 3
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] 1 3 5
- 19) Which one of the following is the correct outcome of the command `grep("[n-s], letters")` ? 1 point
- [1] n-o-p-q-r-s
- [1] n o p q r s
- [1] 14-15-16-17-18-19
- [1] 14 15 16 17 18 19
- No, the answer is incorrect.
Score: 0
Accepted Answers:
[1] 14 15 16 17 18 19
- 20) Which one of the following are the respective correct outcomes of the following commands: `eval(1564-3785-467*32-4356+1887)` and `eval("1564-3785-467*32-4356+1887")` ? 1 point
- 19634 and "1564-3785-467*32-4356+1887"
- 1564-3785-467*32-4356+1887 and "-19634"
- 19634 and 1564-3785-467*32-4356+1887
- 19634 and "-19634" respectively.
- No, the answer is incorrect.
Score: 0
Accepted Answers:
-19634 and "1564-3785-467*32-4356+1887"