

Unit 2 - Week - 1 - Basic fundamentals, installation and use of software, data editing, use of R as a calculator, functions and assignments.

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. <ul style="list-style-type: none"> How to Learn and Follow the Course Lecture 01 - Why R and Installation Procedure Lecture 02 : Introduction _Help_ Demo examples_ packages_ libraries Lecture 03 : Introduction _Command line_ Data editor _ Rstudio Lecture 04 : Basics in Calculations Lecture 05 : Basics of Calculations _Calculator _Built in Functions Assignments Lecture 06 : Basics of Calculations _Functions _Matrices
Quiz : Assignment 1 <ul style="list-style-type: none"> Assignment 1 Solution Feedback Form
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.
Week 6 - Data management with display paste, split, find and replacement, manipulations with alphabets, evaluation of strings, data frames.
Week 7 - 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 1

The due date for submitting this assignment has passed. **Due on 2019-09-11, 23:59 IST.**
 As per our records you have not submitted this assignment.

- Which of the following command is used to get help on the `cor` function? 1 point
 - `"?cor"`
 - `? 'cor'`
 - `?cor`
 - `cor?`

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `?cor`
- Which of the following is the correct option to provide help in R? 1 point
 - `help.search()`
 - `start.help()`
 - `search.help()`
 - `help.start()`

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `help.start()`
- Which of the following option will provide the demonstration of the package `lm.glm`? 1 point
 - `demo(lm.glm)`
 - `demo = lm.glm`
 - `help(demo = lm.glm)`
 - `demonstration("lm.glm")`

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `demo(lm.glm)`
- Which of the following is the correct command to see a working example of the package `glm` in R console? 1 point
 - `example(glm)`
 - `ex(glm)`
 - `example[glm]`
 - `ex("glm")`

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `example(glm)`
- What will be the outcome of the value of `z` when the following commands are executed over the R console? 1 point

```
x=28
y=x^4
z=y^2+x^5
```

 - 377891208704
 - 377819280704
 - 377819208704
 - 378719208704

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `377819208704`
- Which one of the following is the correct outcome of the command `35+6**5-63+48/63*74-4^5*24-87/16*12-3**8/52+76-47+20` ? 1 point
 - 16914.04
 - 16914.04
 - 16491.04
 - 16491.04

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `-16914.04`
- Which one of the following is the correct outcome of the command `25**(-5)*3-18^(-4/5)/(84/42)+41^3+14-78*(-1/4)-8^(-6**7)` ? 1 point
 - 68954.45
 - 68954.45
 - 87954.54
 - None of these

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `68954.45`
- Which one of the following is the correct outcome of the command `c(12,23,34,45)/c(11,22,2,4)*c(12,11,13,21)**c(4,2,2,2)-5*c(21,21,32,15)` ? 1 point
 - 22516.09 -21.50 2713.00 4886.25
 - 22516.09 21.50 2713.00 4886.25
 - 22516.09 21.50 -2713.00 -4886.25
 - Error....

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `22516.09 21.50 2713.00 4886.25`
- Which one of the following is the correct outcome of the command `c(8,16,26,20)/c(32,43)-c(14,12,14,12)^c(3,2)+c(12,14,18,16)/c(21,12)-c(13,18,12,14)*c(3,1)` ? 1 point
 - 2782.1786 160.4612 -2778.3304 156.2016
 - 2782.1786 -160.4612 -2778.3304 156.2016
 - 2782.1786 -160.4612 -2778.3304 -156.2016
 - 2782.1786 160.4612 -2778.3304 156.2016

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `-2782.1786 -160.4612 -2778.3304 -156.2016`
- Which one of the following commands will give a result without a warning? 1 point
 - `c(12,13,15,7)^c(5,4)*c(12,3,14,5)**c(2,3,4,-5)-c(249,130,276,438)/c(18,31,2)+6`
 - `c(12,13,15,7)^c(5,4)*c(12,3,14,5)**c(2,3,4,-5)-c(249,130,276,438)/c(18,31)+6`
 - `c(12,13,15,7)^c(5,4,3)*c(12,3,14,5)**c(2,3,4,-5)-c(249,130,276,438)/c(18,31)+6`
 - `c(12,13,15,7)^c(5,4)*c(12,3,14,5)**c(2,3,4,-5)-c(249,130,276,438)/c(18,31)+6*c(2,4,1)`

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `c(12,13,15,7)^c(5,4)*c(12,3,14,5)**c(2,3,4,-5)-c(249,130,276,438)/c(18,31)+6`
- Which one of the following is the correct outcome of the command `sqrt(c(12,13,15,7)^c(5,4)*c(12,3,14,5)**c(2,3,4,-5)+c(29,10,276,438)/c(18,31)+6)` ? 1 point
 - 5.985968e+03 8.781534e+02 1.707986e+05 4.571362e+00
 - 1.707986e+05 4.571362e+00 5.985968e+03 8.781534e+02
 - 5.985968e+03 4.571362e+00 8.781534e+02 1.707986e+05
 - Error:...

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `5.985968e+03 8.781534e+02 1.707986e+05 4.571362e+00`
- Which one of the following is the correct outcome of the command `c(4,2,4,2)*-c(3,2,-3,-2)**c(-5,-2,1,2)*-c(3,4,-3,-3)+7` ? 1 point
 - 7.049383 9.000000 43.000000 17.000000
 - 7.049383 9.000000 43.000000 -17.000000
 - 7.049383 -9.000000 43.000000 -17.000000
 - 7.049383 9.000000 43.000000 -17.000000

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `7.049383 9.000000 43.000000 -17.000000`
- Which one of the following is the correct outcome of the command `c(15,16,25,82)%/c(4,8)-c(464,624,324,224)%/c(14,13,25,37)+c(53,46,87,78)%/c(7,6,8,9)` ? 1 point
 - 26 42 1 -10
 - 26 -42 -1 10
 - 26 -42 1 10
 - 26 42 -1 -10

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `-26 -42 1 10`
- Which one of the following is the correct outcome of the command `sum(max(c(98,88,44,76)**c(-3,3))/min(c(149,444,22,378)^c(2,3))+prod(c(11,12,11,12)^c(2,3))/abs(c(-9,-24,-24,-59,26)*min(c(4,-3,-2,6))))` ? 1 point
 - 5299364104
 - 3652994104
 - 3641045299
 - None of these

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `3641045299`
- Which one of the following is the correct outcome of the command? `round(sum(c(1,2,1,2)^c(1,2))^2*prod(c(1,2,1,2)^c(2,3))-ceiling(c(1,2,1,2)^c(1,2,3,7)*c(2,3))+abs(c(-5,6,-7,8)^c(2,-3)))` 1 point
 - 6423 6447 6388 6016
 - 6423 6388 6447 6016
 - 6388 6447 6016 6423
 - 6016 6423 6388 6447

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `6423 6388 6447 6016`
- Which one of the following is the correct outcome of the command `-ceiling(c(15,16,17,18)^c(-2,-3))-floor(c(-5,-6,-7,-8)^c(-2,-3))+floor(c(12,13,14,15)**-c(-1,2))-round(c(15,16,17,18)^c(-2,3))` ? 1 point
 - 11 4096 -13 5832
 - 11 -4096 13 -5832
 - 11 4096 13 5832
 - 11 -4096 -13 -5832

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `11 -4096 13 -5832`
- Which one of the following is the correct outcome of the command `ceiling(c(4,8,4,5)^c(-3,-2))+sqrt(c(-36,16,-81,6)**c(2,-3))*sqrt(c(12,13,14,15)^-c(2,3))-round(c(14,17,18,9)*round(c(17,19)))` ? 1 point
 - 171 -258 -236 -145
 - 171 258 -236 145
 - 171 258 236 145
 - 171 -258 236 -145

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `-171 -258 -236 -145`
- Which one of the following is the correct outcome of the command `sum(prod(c(2,3,8,9))-ceiling(c(2,22,23,24,151)))-round(prod(c(2,3,8,9))+floor(c(2,22,23,24,151)))` ? 1 point
 - 1504 1482 1355 1484 1483
 - 1504 1483 1484 1482 1355
 - 1504 1484 1483 1482 1355
 - 1484 1483 1482 1355 1504

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `1504 1484 1483 1482 1355`
- Which one of the following is the value of `x2` when the following commands are executed over the R console? 1 point

```
X1 <- c(243,125,218,124)
X2 <- sqrt(X1^3)+X1*6/X1^2/3-sqrt(X1)**(5/2)-abs(X1)
```

 - 2585.5854 854.5958 2163.0751 843.0344
 - 2585.5854 2163.0751 854.5958 843.0344
 - 2585.5854 854.5958 843.0344 2163.0751
 - 854.5958 2585.5854 2163.0751 843.0344

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `2585.5854 854.5958 2163.0751 843.0344`
- Which one of the following is the correct outcome of the command `c(2,2,5,4)^c(-1,-2,3,3)/c(4,3,12,1)-c(12,24,9,16)%/c(3,-1)*c(-2,1,-3,1)-min(c(20,10,14,25)^c(1,2))%/max(c(6,1,2,5)^c(2,3))` ? 1 point
 - 8.12500 24.08333 19.41667 8.00000
 - 8.12500 24.08333 19.41667 80.00000
 - 8.00000 24.08333 19.41667 80.00000
 - 8.12500 20.00000 19.41667 80.00000

No, the answer is incorrect.
 Score: 0
 Accepted Answers: `8.12500 24.08333 19.41667 80.00000`