







PDF.js viewe 1/12/24, 6:07 PM Peyton Hall Star ID; 1:8246mc Homework 01

- 1. What is R primarily used for statistical computing and data visualizations,
  2. True or False: R is a proprietary software.
- How would you assign the number 5 to a variable named 'x' in R?

  Which of the following is not a correct way to assign a value to a variable in R?

  - c. 3->y
- 5. Assign the character string "Hello, World!" to a variable named 'greeting'. Write the R code.

  3. Cetting 4. World!"

  6. Perform the addition of 7 and 8 in R.

- 7. If a < 10 and b < -5, what is the result of a/b in R?

  8. Write the R expression to calculate the remainder when 15 is divided by 4.
- 9. If x <- 3 and y <- 4, what would be the result of x^y?
- 10. How do you write a single-line comment in R?

  # Use the hash tag Pound Symbol 11. True or False: R supports multi-line comments using '/\* and '\*/'.
- 12. What is the purpose of writing comments in a program?
- You can make code more understandable and readable through comments a

  13. Write an R code that assigns the value 10 to a variable z and includes a comment explaining what the # Use assignment operator to assign the value of 10 to variable "z".
- code does. # Use assignment operator to assign the value of 10 to v

  14. If you want to raise 3 to the power of 4 and then assign the result to a variable called 'result', how would you do this in R?

  # Use the caret operator (^).
- would you do this in R?

  15. Explain in one sentence what R does when it encounters a line starting with the '#' symbol.
- 16. Write the R code to calculate the square root of 16 and assign it to a variable named sqrt value!
- 17. If cost -50 and tax -0.1, how would you calculate the total price after tax in R?
- 18. In R, what symbol is primarily used for assignment?

  19. Which of the following operations will return a value of 1 in R?
  - b. 8 %/% 3 None of these return a value of 1.
- 20. Why is it useful to add comments to your R code?

d. 8/3

It is convenient to document the functionality of a program, through comments. Commenting provides clarity and understanding of the behaviour of the program. Therefore, comments are useful.

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