

# Demographics

Please fill in the following demographic information.

\* Required

1. Please enter your ncsu email. \*

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2. Age \*

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3. Gender \*

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4. How do you estimate your programming experience compared to your classmates? \*

Mark only one oval.

	1	2	3	4	5	6	7	8	9	10	
Very inexperienced	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very experienced

5. How long have you worked in industry? \*

Mark only one oval.

- ☐ Less than 6 months
- ☐ 1-3 years
- ☐ 3-5 years
- ☐ 5 years or more

6. How many years of experience do you have with data analysis? \*

Mark only one oval.

- ☐ Less than 6 months
- ☐ 1-3 years
- ☐ 3-5 years
- ☐ 5 years or more

**7. How many years of experience do you have with Python? \****Mark only one oval.*

- ☐ Less than 6 months
- ☐ 1-3 years
- ☐ 3-5 years
- ☐ 5 years or more

**8. How many years of experience do you have with Python's data analysis libraries such as Pandas? \****Mark only one oval.*

- ☐ Less than 6 months
- ☐ 1-3 years
- ☐ 3-5 years
- ☐ 5 years or more

**9. How many years of experience do you have with R? \****Mark only one oval.*

- ☐ Less than 6 months
- ☐ 1-3 years
- ☐ 3-5 years
- ☐ 5 years or more

*Skip to question 10.*

## R Programming Knowledge

Please fill in the following information about your knowledge with the R programming language.

**10. Select all the valid ways of assigning 5 to a variable 'x' in R. \****Check all that apply.*

- ☐ `x = 5`
- ☐ `x <- 5`
- ☐ `assign(x, 5)`
- ☐ `x <- 5`
- ☐ all of the above

**11. All of these vector types can be used to subset a data frame EXCEPT: \****Mark only one oval.*

- ☐ logical
- ☐ integer
- ☐ complex
- ☐ character

**12. When should you use drop=FALSE? \***

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**13. Which one of these correctly checks whether 'x' is null? \***

Mark only one oval.

- ☐ [is.na](#)(x)
- ☐ isnull(x)
- ☐ x.nan
- ☐ is.null(x)

**14. Given a data frame 'df' with columns a, b, and c, which one of these will cause an error? \***

Mark only one oval.

- ☐ df[[c('a', 'b', 'c')]]
- ☐ df[, c('a', 'b', 'c')]
- ☐ df[, 1:3]
- ☐ df[c('a', 'b', 'c')]

**15. Which one of these correctly selects the first three rows of a data frame df? \***

Mark only one oval.

- ☐ df[0:3, ]
- ☐ df[[1:3]]
- ☐ df[:3, ]
- ☐ df[1:3, ]

**16. Which of the following can you use to extract the column 'a' from a data frame df?**

Mark only one oval.

- ☐ df[df.a]
- ☐ df[[a]]
- ☐ df[[df\$a]]
- ☐ df['a']

17. Which one of these correctly subsets the first five rows and the first column of a data frame df and returns the result as a data frame. \*

Mark only one oval.

- ☐ df[1, 1:5 ]
- ☐ df[1:5, 1]
- ☐ df[:5, 1, drop=FALSE]
- ☐ df[1:5, 1, drop=FALSE]
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