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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Data Science for Engineers (course)



Course outline

How does an NPTEL online course work?

Setup Guide

Pre Course Material

Week 0

- FAQ (unit? unit=20&lesson=21)
- Quiz : Assignment 0

Assignment 0

Your last recorded submission was on **2021-07-19, 17:17 IST** **Due date: 2021-07-26, 23:59 IST.**

Note : This assignment is only for practice purpose and it will not be counted towards the Final score

Create a data frame with given vectors below.

vec1 = c(1,2,3)

vec2 = c("Apple", "Orange", "Guava")

vec3 = c(180,100,50)

Store the data frame in the variable named – “**fruits**”.

Answer questions from 1 to 3 below. These are based on the data frame created above.

(assessment?
name=119)

Week 1

1) What is the command to extract the information from 2nd & 3rd rows **1 point** of the 3rd column?

- ☒ print(fruits [2:3,3])
- ☐ print(fruits [,2,3])
- ☐ print(fruits [2,3,])
- ☐ print(fruits [,3])

2) The command to add a new row to the data frame “**fruits**” with the **1 point** following values vec1= 4, vec2="Grapes", vec3="120" passed to each vector is:

- ☐ fruits =rbind(data.frame(vec1= 4, vec2="Grapes", vec3="120", fruits))
- ☐ fruits =rbind(data.frame(vec1= 4, vec2="Grapes", vec3="120"))
- ☐ fruits =rbind(data.frame(vec1= 4, vec2="Grapes", vec3="120""), fruits)
- ☒ fruits =rbind(fruits, data.frame(vec1= 4, vec2="Grapes", vec3="120"))

3) The command to add a new column to the data frame “**fruits**” with **1 point** vector “**vec4**” taking values 10,20,30,40 is: -

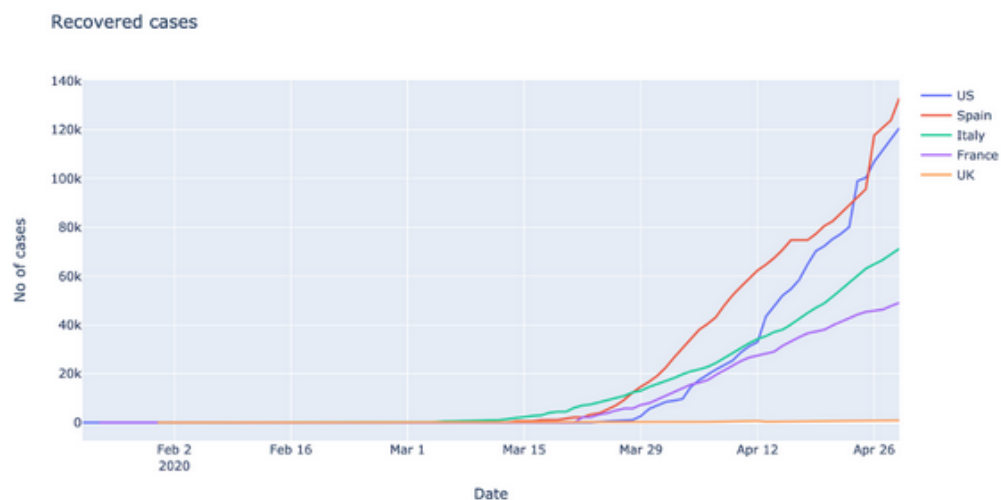
Note: Please answer the question based on data frame created in question 2

- ☐ fruits ==cbind(dataframe(vec4 = c(10,20,30,40), fruits)
- ☒ fruits =cbind(fruits ,data.frame(vec4 = c(10,20,30,40)))
- ☐ fruits =cbind(fruits.data.frame(vec4 = c(10,20,30,40)))
- ☐ fruits =cbind(data.frame(vec4 = c(00,20,30,40)), fruits)

4) In R studio IDE the shortcut key **ctrl+Shift+S** executes **1 point**

- ☐ all commands in the console and displays the output.
- ☐ selected command alone
- ☒ all commands in the console without displaying them
- ☐ all commands in variable explorer

5) The line graph shows the country wise breakup of the number of **1 point** cases who have recovered from COVID-19. Which country has the least number of recovered cases?



- ☒ France
- ☐ US
- ☐ Italy
- ☐ Spain

Create a list using `vec1`, `vec2` and `vec3` and store the vectors in the list variable - "mylist". Answer Q6 based on 'mylist'.

`vec1 = c(6,7,8)`

`vec2 = c("Football", "Basketball", "Volleyball")`

`vec3 = c("300", "400", "600")`

6) Choose the correct command to replace "Basketball" with "Carrom"?

1 point

- ☐ `mylist[[2]][3] = "Carrom"`
- ☒ `mylist[[2]][2] = "Carrom"`
- ☐ `mylist[2,3] = "Carrom"`
- ☐ `mylist[2]3 = "Carrom"`

7) The library needed to do melt & cast operations in R is_____

1 point

- ☐ Cars
- ☐ Caret
- ☐ Gdata

☒ reshape2

8) The correct command to build a square matrix 'A' with numbers from 13 to 21, arranged column wise is:- **1 point**

- ☐ A = matrix(c(13:21), nrow = 3, ncol = 9, byrow = T)
- ☐ A = matrix(c(13:22), nrow = 3, ncol = 1, byrow = F)
- ☐ A = matrix(c(13:22), nrow = 3, ncol = 3, byrow = T)
- ☒ A = matrix(c(13:21), nrow = 3, ncol = 3, byrow = F)

Answer all the questions from 9 to 10 using the matrix from Question 8:

9) The command to extract all the elements of third column from matrix "A" is _____ **1 point**

- ☐ A[3,]
- ☒ A[,3]
- ☐ A(3,)
- ☐ A{3}

10) The command to extract the element in 1st row, 1st column from matrix "A" is _____ **1 point**

- ☐ A(1,1)
- ☐ A[1,3]
- ☐ A{2,3}
- ☒ A[1,1]

You may submit any number of times before the due date. The final submission will be considered for grading.

Check Answers

Submit Answers