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



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## Course outline

About NPTEL ()

How does an NPTEL online course work? ()

Setup Guide ()

Pre Course Material ()

Week 0 ()

Week 1 ()

 Data science for engineers Course philosophy and expectation (unit?

## Week 1: Assignment 1

The due date for submitting this assignment has passed.

Due on 2024-02-07, 23:59 IST.

## Assignment submitted on 2024-01-30, 11:22 IST

4 N	Which of the	£ - 11					:	- 0
1	VVDICD OF THE	TOHOWING	varianie	names	are	TNVALTO	ın	<b>P</b> /
.,	VVIIIOII OI LIIC	TOHOWING	Variable	Harrics	aic	THAUDID		11:

1 point

- 1\_variable
- variable\_1
- \_variable
- variable@

Yes, the answer is correct.

Score: 1

Accepted Answers:

1 variable

variable

variable@

2) The function Is() in R will

1 point

- set a new working directory path
- list all objects in our working environment
- display the path to our working directory
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

list all objects in our working environment



unit=21&lesso n=22)

- Introduction to R (unit? unit=21&lesso n=23)
- Introduction to R (Continued) (unit? unit=21&lesso n=24)
- Variables and datatypes in R (unit? unit=21&lesso n=25)
- Data frames (unit? unit=21&lesso n=26)
- Recasting and joining of dataframes (unit? unit=21&lesso n=27)
- Arithmetic,Logi cal and Matrix operations in R (unit? unit=21&lesso n=28)
- Advanced programming in R:
   Functions (unit? unit=21&lesso n=29)
- O Advanced
  Programming
  in R:
  Functions
  (Continued)
  (unit?
  unit=21&lesso
  n=30)
- Control structures (unit?

Consider the following code snippet. Based on this, answer questions 3 and 4.

```
ID = c(1, 2, 3, 4)
Patient_name = c("Ram", "Shyam", "Nandini", "Maya")
num.patient = 4
patient_list = list(num.patient, ID, Patient_name)
```

- 3) Which of the following command is used to access the value "Shyam"?
- 1 point

- print(patient\_list[3][2])
- print(patient\_list[[3]][1])
- print(patient\_list[[3]][2])
- print(patient\_list[[2]][2])

Yes, the answer is correct.

Score: 1

Accepted Answers: print(patient\_list[[3]][2])

4) The output of the code given below is

1 point

```
for (i in patient_list[1]){
    for (j in i){
       print(j)
    }
}
```



[1] 4



Code will throw an error

Yes, the answer is correct.

Score: 1 unit=21&lesso n=31)Accepted Answers: Data [1] 4 visualization in R Basic graphics (unit? 5) What is the output of following code? 1 point unit=21&lesso x = 10 + 5 % 3n=32) 1 2 Common print(typeof(x)) 3 doubts asked on R Language double (Week-1) integer (unit? unit=21&lesso O list n=33)None of the above O Practice: Week Yes, the answer is correct. 1: Assignment Score: 1 1 (Non Accepted Answers: Graded) double (assessment? name=183) 6) State whether the given statement is True or False. 1 point Quiz: Week 1: The library reshape2 is based around two key functions named melt and cast. **Assignment 1** True (assessment? name=191) False Week 1 Yes, the answer is correct. Feedback Score: 1 Form: Data Accepted Answers: Science For True Engineers (unit? 7) What is the output of following code? 1 point unit=21&lesso A = matrix(c(9:1), 3, 3)n=153) Week 1: Solution (unit? print(A[3, 2]) unit=21&lesso n=167) 06 Week 2 () **4 2** Week 3 () 8 Week 4 () Yes, the answer is correct. Score: 1 Week 5 () Accepted Answers: Week 6 () Create the data frame using the code given below and answer questions 8 and 9. Week 7 ()

Week 8 ()	student_data = data.frame(student_id=c(1:4), student_name=c('Ram','Harish','Pradeep','Rajesh'))				
Text	8) Choose the correct command to add a column named <b>student_dept</b> to the	1 point			
Transcripts ()	dataframe student_data.				
Download	student_datastudent_dept=c("Commerce", "Biology", "English", "Tamil")				
Videos ()	student_data["student_dept"]= c("Commerce","Biology", "English","Tamil")				
Beeke ()	student_dept= student_data[c("Commerce","Biology","English","Tamil")]				
Books ()	None of the above				
Problem Solving	Yes, the answer is correct. Score: 1				
Session -	Accepted Answers:				
Jan 2024 ()	student_datastudent_dept=c("Commerce", "Biology", "English", "Tamil") student_data["student_dept"]= c("Commerce", "Biology", "English", "Tamil")				
	Student_data[ student_dept ]= c( Commerce , blology , English , famili )				
	9) Choose the correct command to access the element Tamil in the dataframe	1 point			
	student_data.				
	student_data[[4]]				
	student_data[[4]][3]				
	student_data[[3]][4]				
	O None of the above				
	Yes, the answer is correct.				
	Score: 1 Accepted Answers:				
	student_data[[3]][4]				
	10) The command to check if a value is of numeric data type is	1 point			
	10) The command to check if a value is of numeric data type is	τ ροιπι			
	typeof()				
	is.numeric()				
	as.numeric()				
	None of the above				
	Yes, the answer is correct. Score: 1				
	Accepted Answers:				
	is.numeric()				