

X



(<https://swayam.gov.in>)



(https://swayam.gov.in/nc_details/NPTEL)

vivekdubey74rr@gmail.com ▾

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



If already registered,
click to check your
payment status

Course outline

How does an NPTEL
online course work? ()

Setup Guide ()

Pre Course Material ()

Week 1: Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-08-09, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which of the following variable names are `INVALID` in R?

1 point

☐ 1_variable

☐ variable_1

☐ _variable

☐ variable@

No, the answer is incorrect.

Week 0 ()

Week 1 ()

- ☒ Data science for engineers Course philosophy and expectation (unit? unit=21&lesson=22)
- ☐ Introduction to R (unit? unit=21&lesson=23)
- ☐ Introduction to R (Continued) (unit? unit=21&lesson=24)
- ☐ Variables and datatypes in R (unit? unit=21&lesson=25)
- ☐ Data frames (unit? unit=21&lesson=26)
- ☐ Recasting and joining of dataframes (unit? unit=21&lesson=27)
- ☐ Arithmetic, Logical and Matrix operations in R (unit? unit=21&lesson=28)
- ☐ Advanced programming in R : Functions (unit? unit=21&lesson=29)
- ☐ Advanced Programming in R : Functions

Score: 0

Accepted Answers:

1_variable

_variable

variable@

2) The function ls() in R will

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

list all objects in our working environment

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

```
1 ID = c(1, 2, 3, 4)
2
3 Patient_name = c("Ram", "Shyam", "Nandini", "Maya")
4
5 num.patient = 4
6
7 patient_list = list(num.patient, ID, Patient_name)
8
```

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

- ☐ print(patient_list[3][2])
- ☐ print(patient_list[[3]][1])
- ☐ print(patient_list[[3]][2])
- ☐ print(patient_list[[2]][2])

1 point

1 point

(Continued) (unit?
unit=21&lesson=30)

☐ Control structures (unit?
unit=21&lesson=31)

☐ Data visualization in R
Basic graphics (unit?
unit=21&lesson=32)

☐ Common doubts asked
on R Language (Week-1)
(unit?
unit=21&lesson=33)

☐ Practice: Week 1:
Assignment 1 (Non
Graded) (assessment?
name=141)

☐ **Quiz: Week 1:
Assignment 1
(assessment?
name=161)**

☐ Week 1 Feedback Form :
Data Science For
Engineers (unit?
unit=21&lesson=153)

☒ Week 1: Solution (unit?
unit=21&lesson=167)

Week 2 ()

Week 3 ()

Week 4 ()

No, the answer is incorrect.
Score: 0

Accepted Answers:
print(patient_list[[3]][2])

4) The output of the code given below is

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

☐

```
[[1]] "Ram"  
[1] "Shyam"  
[1] "Nandini"  
[1] "Maya"
```

☐

```
[[1]] 4
```

☐

```
[[1]] 1  
[1] 2  
[1] 3  
[1] 4
```

☐ Code will throw an error.

No, the answer is incorrect.
Score: 0

Accepted Answers:

```
[[1]] 4
```

1 point

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Text Transcripts ()

Download Videos ()

Books ()

Problem Solving
Session - July 2023 ()

5) What is the output of following code?

1 point

```
1 x = 10 + 5 %% 3
2
3 print(typeof(x))
4
```

- ☐ double
- ☐ integer
- ☐ list
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

double

6) State whether the given statement is True or False.

1 point

The library reshape2 is based around two key functions named **melt** and **cast**

- ☐ True
- ☐ False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

7) What is the output of following code?

1 point

```
A = matrix(c(9:1), 3, 3)

print(A[3, 2])
```

- ☐ 6

- ☐ 4
- ☐ 2
- ☐ 8

No, the answer is incorrect.

Score: 0

Accepted Answers:

4

Create the data frame using the code given below and answer questions 8 and 9.

```
student data = data.frame(student id=c(1:4), student name=c('Ram','Harish','Pradeep','Rajesh'))
```

8) Choose the correct command to add a column named **student_dept** to the dataframe **student_data**.

1 point

- ☐ student datastudent dept=c("Commerce", "Biology", "English", "Tamil")
- ☐ student data["student dept"]= c("Commerce","Biology", "English","Tamil")
- ☐ student dept= student data[c("Commerce","Biology","English","Tamil")]
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

```
student datastudent dept=c("Commerce", "Biology", "English", "Tamil")
```

```
student data["student dept"]= c("Commerce","Biology", "English","Tamil")
```

9) Choose the correct command to access the element **Tamil** in the dataframe **student_data**

1 point

- ☐ student data[[4]]
- ☐ student data[[4]][3]
- ☐ student data[[3]][4]
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

student data[[3]][4]

10) The command to check if a value is of numeric data type is _____.

1 point

- ☐ typeof()
- ☐ is.numeric()
- ☐ as.numeric()
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

is.numeric()