

<https://swayam.gov.in>https://swayam.gov.in/nc_details/NPTEL

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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Data Science for Engineers (course)Course
outlineAbout
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? unit=21&lesson=22)

- Introduction to R (unit?

Week 1 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2024-08-07, 23:59 IST.

Assignment submitted on 2024-08-07, 22:22 IST

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

1 point

- ☒ 1_variable
- ☐ variable_1
- ☐ _variable
- ☒ variable@

Partially Correct.
Score: 0.67

Accepted Answers:

1_variable
_variable
variable@

2) The function ls() 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&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
(Continued)
(unit?
unit=21&lesson=30)

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

● Data visualization in R Basic

Consider the 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"?

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

☒

```
[1] 4
```

graphics (unit?
unit=21&lesso
n=32)

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

- Practice: Week 1: Assignment 1 (Non Graded) (assessment? name=206)

- Quiz: Week 1 : Assignment 1 (assessment? name=214)

- Week 1 Feedback Form : Data Science for Engineers (unit? unit=21&lesso n=153)

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

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- ☐ Code will throw an error.

Yes, the answer is correct.

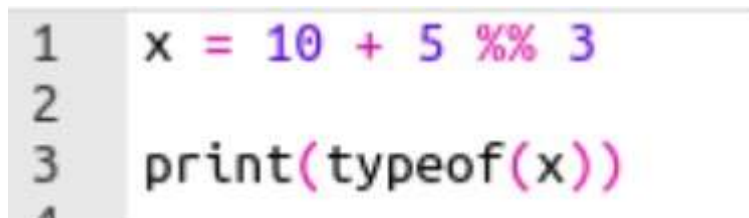
Score: 1

Accepted Answers:



5) What is the output of following code?

1 point



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

Yes, the answer is correct.

Score: 1

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

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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

Yes, the answer is correct.

Score: 1

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

Partially Correct.

Score: 0.5

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

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

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

is.numeric()