



ACADGILD

SESSION 3: FOUNDATIONAL R PROGRAMMING

Assignment 3

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1. Introduction

This assignment will help you understand the concepts learnt in the session.

2. Objective

This assignment will test your skills on Operations on Data Structures in R.

3. Prerequisites

Not applicable.

4. Associated Data Files

Not applicable.

5. Problem Statement

1. Define matrix mymat by replicating the sequence 1:5 for 4 times and transforming into a matrix, sum over rows and columns.

ANS: `mat2=matrix(rep(1:5, 4), cbind(5))`
`mat2`

```
> mat2=matrix(rep(1:5, 4), cbind(5))
> mat2
      [,1] [,2] [,3] [,4]
[1,]    1    1    1    1
[2,]    2    2    2    2
[3,]    3    3    3    3
[4,]    4    4    4    4
[5,]    5    5    5    5
```

`apply(mat2, 1, sum)`
`apply(mat2, 2, sum)`

```
> apply(mat2, 1, sum)
[1]  4  8 12 16 20
> apply(mat2, 2, sum)
[1] 15 15 15 15
```