

ACAD**GILD**

Session 16: R For Business Analytics (Contd.)

Assignment 2

Data Analytics

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1. Introduction

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

2. Objective

To understand the concepts in R.

3. Prerequisites

Not applicable.

4. Associated Data Files

N/A

5. Problem Statement

- 1. Write a function called sum_of_cubes, that calculates the sum of cubes of the first n natural numbers :
 - if we have two numbers: 1, 2 then sum of squares is 9 (1³ + 2³)
 - if we have three numbers: 1, 2, 3 then sum of squares is $36 (1^3 + 2^3 + 3^3)$
- 2. Write a function to calculate the mode (highest frequency) of the following vector: x = c(2,3,3,4,4,5,6,7,9,10)

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Write a function to calculate the no. of prime numbers of the following vector : x = c(2,2,3,3,4,5,7,11,15,19,24,29)
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6. Expected Output

N/A

7. Approximate Time to Complete Task