TEB2164 Introduction to Data Science
Lab 5b- Selection statement, repetition statement

Learning Outcomes

At the end of the session, you will be able to:

- Write, run, and explain different selection statement and repetition statement.

Activity

1. Write a R program to check whether a year is leap year or not.

Sample expected outcome:

```
Input year: 2004
Output: 2004 is a leap year.

Input year: 1900
Output: 1900 is a not leap year.
```

2. Write a R program to display the cube of the number up to a given integer.

Sample expected outcome:

```
Input an integer: 5
Number is: 1 and cube of the 1 is :1
Number is: 2 and cube of the 2 is :8
Number is: 3 and cube of the 3 is :27
Number is: 4 and cube of the 4 is :64
Number is: 5 and cube of the 5 is :125
```

3. Write a R program to check Armstrong number of n digits. An Armstrong number is one whose sum of digits raised to the power three equals the number itself. Example $1^3 + 6^3 + 3^3 + 4^3 = 1634$

Sample expected outcome:

```
Check whether an n digits number is Armstrong or not:
-------------------------------------------------------------
 Input an integer: 1634
 1634 is an Armstrong number.
```

Submission

- Submit to your GA.