



# INTERNATIONAL ISLAMIC UNIVERSITY

## Group Assignment/Project

**Course Code & Name:** SE-302 Software Construction & Development

**Assignment/Project Title:** Develop a 400 Years Calendar

**Task Number:** Assignment No 2

**Lecturer Name:** Mr.Shakir Rasheed

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**Department:** Software Engineering

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**Submission Date:** 8 – March – 2023

# Develop a 400 Years Calendar.

- User shall input the year with 4 digits 1900.
- The System shall output the given year is a Leap Year or Not.
- Firstly, follow Code Optimization as discussed in class.
- Secondly, reduce the Code Complexity.

## Program (C++)

// SCD Assignment Number 2.cpp : This file contains the 'main' function. Program execution begins and ends there.

```
#include <iostream>
using namespace std;
```

```
//Main Body
```

```
int main()
{
    int year;

    do
    {
        cout << "Enter any 4 digit year to check it is a leap or not = ";
        cin >> year;
        cout << endl;

        if (year % 4 == 0 && year > 999 && year<10000)
        {
            cout << year << " is a Leap Year\n\n";
        }
        else
        {
            if (year < 999 || year > 10000)
            {
                cout << "Your input command is not 4 digit \n" << endl;
            }
            else
            {
                cout << year << " is Not a Leap Year\n\n";
            }
        }
    }
    while (true);
}
```

# Output

C:\Users\ITS\source\repos\SCD Assignment Number 2\Debug\SCD Assignment Number 2.exe

```
Your input command is not 4 digit
Enter any 4 digit year to check it is a leap or not = 4444
4444 is a Leap Year
Enter any 4 digit year to check it is a leap or not = 3333
3333 is Not a Leap Year
Enter any 4 digit year to check it is a leap or not = 10000
10000 is Not a Leap Year
Enter any 4 digit year to check it is a leap or not = 2024
2024 is a Leap Year
Enter any 4 digit year to check it is a leap or not = 2020
2020 is a Leap Year
Enter any 4 digit year to check it is a leap or not = 44
Your input command is not 4 digit
Enter any 4 digit year to check it is a leap or not = 8988
8988 is a Leap Year
Enter any 4 digit year to check it is a leap or not = 2222
2222 is Not a Leap Year
Enter any 4 digit year to check it is a leap or not = 2022
2022 is Not a Leap Year
Enter any 4 digit year to check it is a leap or not = 2024
2024 is a Leap Year
Enter any 4 digit year to check it is a leap or not =
```



**THE END**

