

Assignment - 1

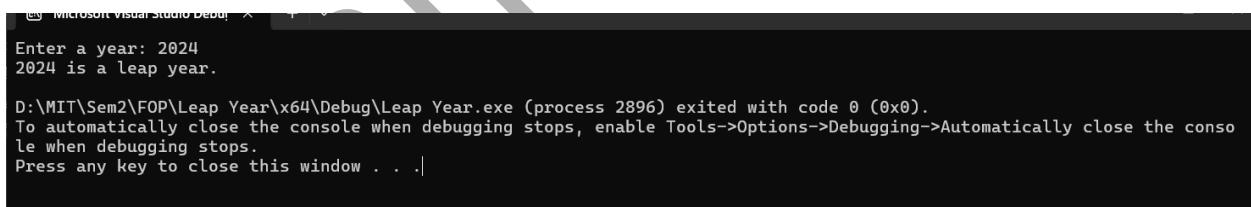
Problem Statement:

Write a program in C to check leap year.

Code:

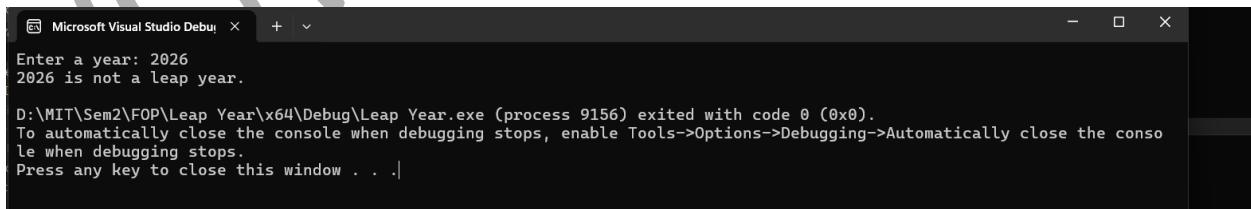
```
1 #include <stdio.h>
2
3 //Global variable:
4 int year;
5
6 int main() {
7     printf("Enter a year: "); //Prompt the user to enter a year
8     scanf("%d", &year);
9     //Check if the year is a leap year:
10    if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {
11        printf("%d is a leap year.\n", year);
12    }
13    else {
14        printf("%d is not a leap year.\n", year);
15    }
16    return 0;
17 }
```

Input & Output:



```
Microsoft Visual Studio Debug
Enter a year: 2024
2024 is a leap year.

D:\MIT\Sem2\FOP\Leap Year\x64\Debug\Leap Year.exe (process 2896) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```



```
Microsoft Visual Studio Debug
Enter a year: 2026
2026 is not a leap year.

D:\MIT\Sem2\FOP\Leap Year\x64\Debug\Leap Year.exe (process 9156) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```