

Assignment - 1

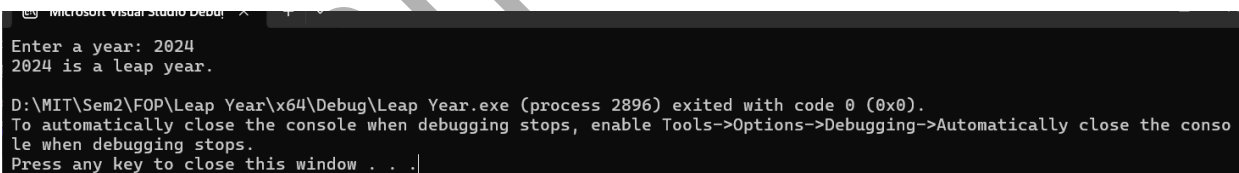
Problem Statement:

Write a program in C to check leap year.

Code:

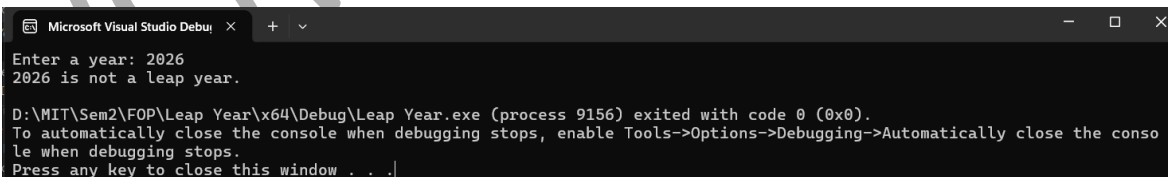
```
1  #include <stdio.h>
2
3  //Global variable:
4  int year;
5
6  int main() {
7      printf("Enter a year: "); //Prompt the user to enter a year
8      scanf_s("%d", &year);
9      //Check if the year is a leap year:
10     if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {
11         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:



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 . . .



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 . . .