

Experiment No. 3.1.4 Name:

```

#include <stdio.h>
int main ()
{
    int year, i, days = 0, day;
    printf ("Enter year: ");
    scanf ("%d", &year);

    for (i=1; i<year; i++)
    {
        if ((i % 400 == 0) || (i % 4 == 0 && i % 100 != 0))
            days += 366;
        else
            days += 365;
    }
    day = days % 7;

    printf ("On 1st January %d, it was ", year);

    switch (day)
    {
        case 0: printf ("Monday \n"); break;
        case 1: printf ("Tuesday \n"); break;
        case 2: printf ("Wednesday \n"); break;
        case 3: printf ("Thursday \n"); break;
        case 4: printf ("Friday \n"); break;
        case 5: printf ("Saturday \n"); break;
        case 6: printf ("Sunday \n"); break;
    }
    return 0;
}

```

Teacher's Signature: _____

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main.c

3 int main() {
4 int year, i, days = 0, day;
5
6 printf("Enter year: ");
7 scanf("%d", &year);
8
9 for (i = 1; i < year; i++) {
10 if ((i % 400 == 0) || (i % 4 == 0 && i % 100 != 0))
11 days += 366;
12 else
13 days += 365;
14 }
15
16 day = days % 7;
17
18 printf("On 1st January %d, it was ", year);
19
20 switch (day) {
21 case 0: printf("Monday\n"); break;
22 case 1: printf("Tuesday\n"); break;
23 case 2: printf("Wednesday\n"); break;
24 case 3: printf("Thursday\n"); break;
25 case 4: printf("Friday\n"); break;
26 case 5: printf("Saturday\n"); break;
27 case 6: printf("Sunday\n"); break;
28 }

Run

Output

Clear

Enter year: 2015
On 1st January 2015, it was Thursday
== Code Execution Successful ==

30°C Sunny

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