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KATIYAR**

**2. ANKIT
MISHRA**

**4. ANKUR
MISHRA**

**5. ANMOL
DHIMAN**

**THE GAME
OF
DAYS
GR. NO. 46.**

ACKNOWLEDGEMENT

We would like to express our sincere gratitude to our Computer Science professor Mr. Bhanu Murthy for letting us take upon this project and providing us with valuable guidance throughout our project – THE GAME OF DAYS. We would also like to thank our friends and family for their endless support without which we could not have completed this work on time.

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About → The game of days

This is a project we made involving the days of the year

One of the options helps us to print the calendar of a desired month of the specified year.

While another helps us to find out the day on any specified date.



Brief explanation: -

- For the generating the calendar, we take the reference of Gregorian calendar as its 1st January is Monday.
- January has $31 = 7 \times 4 + 3$ days, so 1 February ($7*4$) will fall on the day which follows three days after 1 January . Similarly, 1 March ($7*4+3$) will fall on the day three days after the day corresponding to January 1, April 1 will fall 6 days after, and so on.
- Thus, the first days of each month are offset with respect to 1 January by the array {0, 3, 3, 6, 1, 4, 6, 2, 5, 0, 3, 5}.

After this array the calculation would be like that: -

```
int days (int y, int m, int d)
{
    static int t [] = {0, 3, 3, 6, 1, 4, 6, 2, 5, 0, 3, 5};
    return (y + t[m-1] + d) % 7;
}
```

Where, d is the day of the given month(m) and y is the difference of the given year with the Gregorian year which is same as the input year.

- But this calculation is incomplete as there is no contribution of the leap year.
- In a simple year there are $365(7*52 + 1)$ days and this one day will change the day of the particular date

for example: if the day of 14th July, 2015 is Monday then there will be Tuesday on 14th July, 2016 and we have to find these extra number of days which is equal to the difference of the given year with the reference year

- But, if we see a leap year there are $366(7*52 + 2)$ days and they will add up an extra day after every 4 years.
- So, we have to find the number of leap days also.

- For this, we have to do a calculation which is:

$$y/4 - y/100 + y/400$$

- And this calculation will add up number of leap day in the difference of the given year in the reference year

(as the $y/4$ will give the number of leap years from the reference year to the given year but it will add up the non-leap years of century also so we have to subtract $y/100$ and this action we eliminate the leap years which are divisible by 400 so we have to add $y/400$)

- In a leap the extra will add up after the month of February so to perform the same algorithm of the month of the February and January we will subtract 1 from the given year ($y -= m < 3$) but We are subtracting 1 from the year for January and February for non-leap years too.
- This means that there would be a "blank" day between February 28 and March 1, that is, we have made every non-leap year a leap year, and leap years double-leap years.

➤ If we subtract 1 from the t [] values of every month after February, that would fill the gap, and the leap year problem is solved.

➤ That is, we need to make the following changes:

t [] now becomes {0, 3, 2, 5, 0, 3, 5, 1, 4, 6, 2, 4}

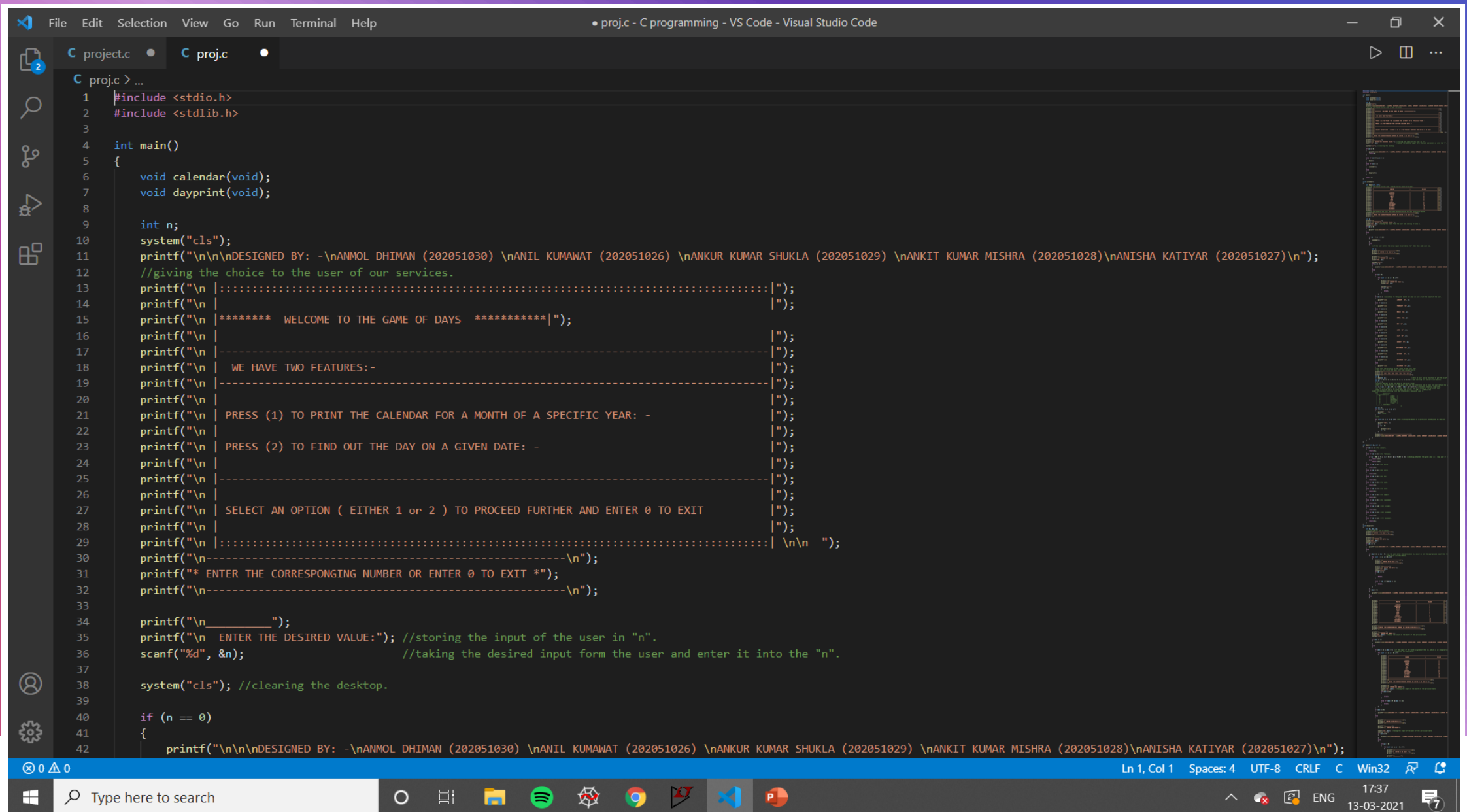
➤ So our full solution would be:

```
int days (int y, int m, int d)
{
    static int t [] = {0, 3, 2, 5, 0, 3, 5, 1, 4, 6, 2, 4};
    y -= m < 3;
    return (y + y/4 - y/100 + y/400 + t[m-1] + d) % 7;
}
```



<u>DAY CODE</u>	<u>DAY</u>
0	SUNDAY
1	MONDAY
2	TUESDAY
3	WEDNESDAY
4	THURSDAY
5	FRIDAY
6	SATURDAY

CODE :-



```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     void calendar(void);
7     void dayprint(void);
8
9     int n;
10    system("cls");
11    printf("\n\ndESIGNED BY: -\nANMOL DHIMAN (202051030) \nANIL KUMAWAT (202051026) \nANKUR KUMAR SHUKLA (202051029) \nANKIT KUMAR MISHRA (202051028)\nANISHA KATIYAR (202051027)\n");
12    //giving the choice to the user of our services.
13    printf("\n |::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::|");
14    printf("\n |");
15    printf("\n |***** WELCOME TO THE GAME OF DAYS *****|");
16    printf("\n |");
17    printf("\n |-----|");
18    printf("\n | WE HAVE TWO FEATURES:- |");
19    printf("\n |-----|");
20    printf("\n |");
21    printf("\n | PRESS (1) TO PRINT THE CALENDAR FOR A MONTH OF A SPECIFIC YEAR: - |");
22    printf("\n |");
23    printf("\n | PRESS (2) TO FIND OUT THE DAY ON A GIVEN DATE: - |");
24    printf("\n |");
25    printf("\n |-----|");
26    printf("\n |");
27    printf("\n | SELECT AN OPTION ( EITHER 1 or 2 ) TO PROCEED FURTHER AND ENTER 0 TO EXIT |");
28    printf("\n |");
29    printf("\n |::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::| \n\n ");
30    printf("\n-----\n");
31    printf("* ENTER THE CORRESPONDING NUMBER OR ENTER 0 TO EXIT *");
32    printf("\n-----\n");
33
34    printf("\n_____");
35    printf("\n ENTER THE DESIRED VALUE:"); //storing the input of the user in "n".
36    scanf("%d", &n); //taking the desired input form the user and enter it into the "n".
37
38    system("cls"); //clearing the desktop.
39
40    if (n == 0)
41    {
42        printf("\n\ndESIGNED BY: -\nANMOL DHIMAN (202051030) \nANIL KUMAWAT (202051026) \nANKUR KUMAR SHUKLA (202051029) \nANKIT KUMAR MISHRA (202051028)\nANISHA KATIYAR (202051027)\n");
```

Visual Studio Code interface showing a C program for a calendar application. The code is in a file named `proj.c`.

```
1 //
2
3
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19
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28
29
30
31
32
33
34
35
36
37
38 system("cls"); //clearing the desktop.
39
40 if (n == 0)
41 {
42     printf("\n\nDESIGNED BY: -\nANMOL DHIMAN (202051030) \nANIL KUMAWAT (202051026) \nANKUR KUMAR SHUKLA (202051029) \nANKIT KUMAR MISHRA (202051028)\nANISHA KATIYAR (202051027)\n");
43     return 0;
44 }
45
46 else if (n < 0 || n > 2)
47 {
48     main();
49 }
50 else if (n == 1)
51 {
52     calendar();
53 }
54 else
55 {
56     dayprint();
57 }
58
59 return 0;
60 }
61
62 void calendar()
63 {
64     int days(int, int);
65     //giving the choice to the user related to the month of a year.
66     printf(" |-----|\n");
67     printf(" |          MONTH          |          VALUE          |\n");
68     printf(" |-----|\n");
69     printf(" |          JANUARY          |          1          |\n");
70     printf(" |          FEBRUARY         |          2          |\n");
71     printf(" |          MARCH            |          3          |\n");
72     printf(" |          APRIL            |          4          |\n");
73     printf(" |          MAY              |          5          |\n");
74     printf(" |          JUNE             |          6          |\n");
75     printf(" |          JULY             |          7          |\n");
76     printf(" |          AUGUST           |          8          |\n");
77     printf(" |          SEPTEMBER        |          9          |\n");
78     printf(" |          OCTOBER          |         10          |\n");
79     printf(" |          NOVEMBER         |         11          |\n");
```

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Visual Studio Code interface showing a C program for a calendar. The program prompts the user to enter a month value (1-12) and then displays the corresponding month name and its value. The program also includes a copyright notice for the designers.

```
proj.c > main()
63 {
64     int days(int, int);
65     //giving the choice to the user related to the month of a year.
66     printf("-----\n");
67     printf("          MONTH          VALUE\n");
68     printf("-----\n");
69     printf("          JANUARY          1\n");
70     printf("          FEBRUARY         2\n");
71     printf("          MARCH            3\n");
72     printf("          APRIL            4\n");
73     printf("          MAY              5\n");
74     printf("          JUNE             6\n");
75     printf("          JULY             7\n");
76     printf("          AUGUST           8\n");
77     printf("          SEPTEMBER        9\n");
78     printf("          OCTOBER          10\n");
79     printf("          NOVEMBER         11\n");
80     printf("          DECEMBER         12\n");
81     printf("-----\n");
82     //giving the path to the user that what he have to do for the particular month.
83     printf("\n-----\n");
84     printf("** ENTER THE CORRESPONDING NUMBER OR ENTER 0 TO EXIT *");
85     printf("\n-----\n");
86
87     int m;
88     printf("\n_____");
89     printf("\n ENTER THE DESIRED VALUE:");
90     scanf("%d", &m); //taking the input from the user and storing it into m.
91     system("cls");
92     if (m == 0)
93     {
94         printf("\n\n\ndESIGNED BY: -\nanmol DHIMAN (202051030) \nanil KUMAWAT (202051026) \nankur KUMAR SHUKLA (202051029) \nankit KUMAR MISHRA (202051028)\nanisha KATIIYAR (202051027)\n");
95     }
96     else
97     {
98
99         if (m < 0 || m > 12)
100         {
101             calendar();
102         }
103         else
104         {
```

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Visual Studio Code interface showing a C program for a calendar. The file is named `proj.c` and the current function is `calendar()`.

```
96     else
97     {
98
99         if (m < 0 || m > 12)
100         {
101             calendar();
102         }
103     }
104     else
105     {
106         //if the user enters the value equal to or below "12" then this code will run.
107
108         int y;
109         printf("\n-----\n");
110         printf("*   ENTER 0 TO EXIT *");
111         printf("\n-----\n");
112
113         printf("\n_____");
114         printf("\n  ENTER THE YEAR:");
115         scanf("%d", &y);
116
117         system("cls");
118         if (y == 0)
119         {
120             printf("\n\n\nDESIGNED BY: -\nANMOL DHIMAN (202051030) \nANIL KUMAWAT (202051026) \nANKUR KUMAR SHUKLA (202051029) \nANKIT KUMAR MISHRA (202051028)\nANISHA KATIYAR (202051027)");
121         }
122         else
123         {
124             if (y < 0)
125             {
126                 for (int i = 1; i > 0; i++)
127                 {
128                     printf("\n_____");
129                     printf("\n  ENTER THE YEAR:");
130                     scanf("%d", &y);
131
132                     system("cls");
133                     if (y > 0)
134                     {
135                         break;
136                     }
137                 }
138             }
139         }
140     }
```

The status bar at the bottom indicates: Ln 111, Col 1 | Spaces: 4 | UTF-8 | CRLF | C | Win32.

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proj.c - C programming - VS Code - Visual Studio Code

project.c • proj.c

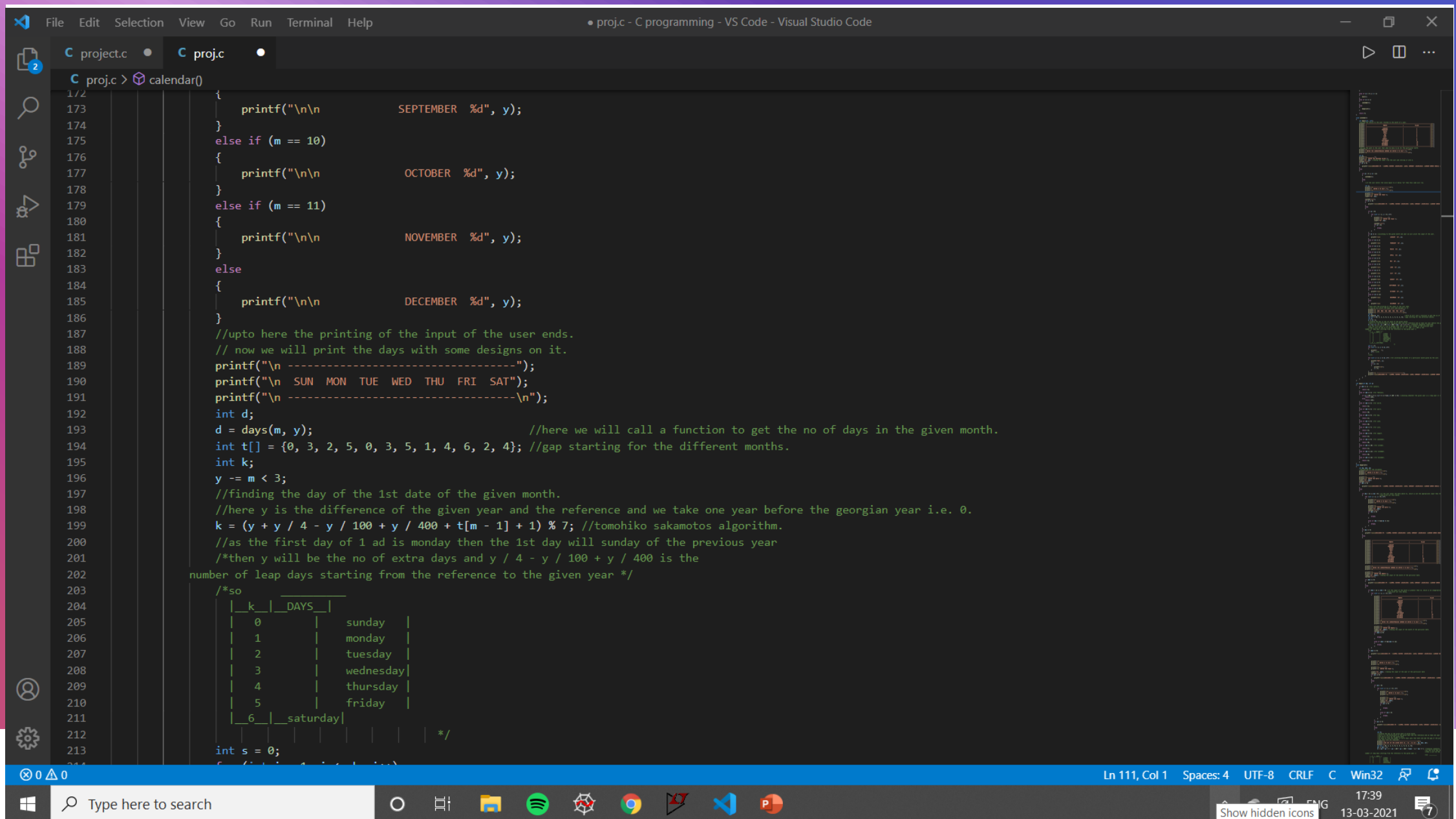
C proj.c > calendar()

```
136     }
137 }
138
139 if (m == 1) //according to the given month and year we will print the input of the user.
140 {
141     printf("\n\n      JANUARY  %d", y);
142 }
143 else if (m == 2)
144 {
145     printf("\n\n      FEBRUARY  %d", y);
146 }
147 else if (m == 3)
148 {
149     printf("\n\n      MARCH    %d", y);
150 }
151 else if (m == 4)
152 {
153     printf("\n\n      APRIL   %d", y);
154 }
155 else if (m == 5)
156 {
157     printf("\n\n      MAY     %d", y);
158 }
159 else if (m == 6)
160 {
161     printf("\n\n      JUNE    %d", y);
162 }
163 else if (m == 7)
164 {
165     printf("\n\n      JULY    %d", y);
166 }
167 else if (m == 8)
168 {
169     printf("\n\n      AUGUST  %d", y);
170 }
171 else if (m == 9)
172 {
173     printf("\n\n      SEPTEMBER %d", y);
174 }
175 else if (m == 10)
176 {
177     printf("\n\n      OCTOBER  %d", y);
```

Ln 111, Col 1 Spaces: 4 UTF-8 CRLF C Win32

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17:38 13-03-2021



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proj.c - C programming - VS Code - Visual Studio Code

proj.c

```
213     int s = 0;
214     for (int i = 1; i <= k; i++)
215     {
216         printf("    ");
217         s++; //s=0;
218     }
219     //s=3;
220
221     for (int i = 1; i <= d; i++) //for printing the dates of a particular month given by the user.
222     {
223         printf("%5d", i);
224         s++;
225         if (s > 6)
226         {
227             printf("\n");
228             s = 0;
229         }
230     }
231     printf("\n -----");
232     printf("\n\nDESIGNED BY: -\nANMOL DHIMAN (202051030) \nANIL KUMAWAT (202051026) \nANKUR KUMAR SHUKLA (202051029) \nANKIT KUMAR MISHRA (202051028)\nANISHA KATTIYAR (202051027)");
233 }
234 }
235 }
236 }
237
238 int days(int md, int y)
239 {
240     if (md == 1) //for january.
241     {
242         return 31;
243     }
244     else if (md == 2) //for february.
245     {
246         if (y % 400 == 0 || (y % 4 == 0 && y % 100 != 0)) //checking wheather the given year is a leap year or not.
247             return (29);
248         else
249             return (28);
250     }
251     else if (md == 3) //for march.
252     {
253         return 31;
254     }
255 }
```

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13 March 2021 Saturday

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proj.c - C programming - VS Code - Visual Studio Code

proj.c

proj.c

calendar()

238

int days(int md, int y)

239

{

240

if (md == 1) //for january.

241

{

242

return 31;

243

}

244

else if (md == 2) //for february.

245

{

246

if (y % 400 == 0 || (y % 4 == 0 && y % 100 != 0)) //checking wheather the given year is a leap year or not.

247

return (29);

248

else

249

return (28);

250

}

251

else if (md == 3) //for march.

252

{

253

return 31;

254

}

255

else if (md == 4) //for april.

256

{

257

return 30;

258

}

259

else if (md == 5) //for may.

260

{

261

return 31;

262

}

263

else if (md == 6) //for june.

264

{

265

return 30;

266

}

267

else if (md == 7) //for july.

268

{

269

return 31;

270

}

271

else if (md == 8) //for august.

272

{

273

return 31;

274

}

275

else if (md == 9) //for september.

276

{

277

return 30;

278

}

279

else if (md == 10) //for october.

}

}

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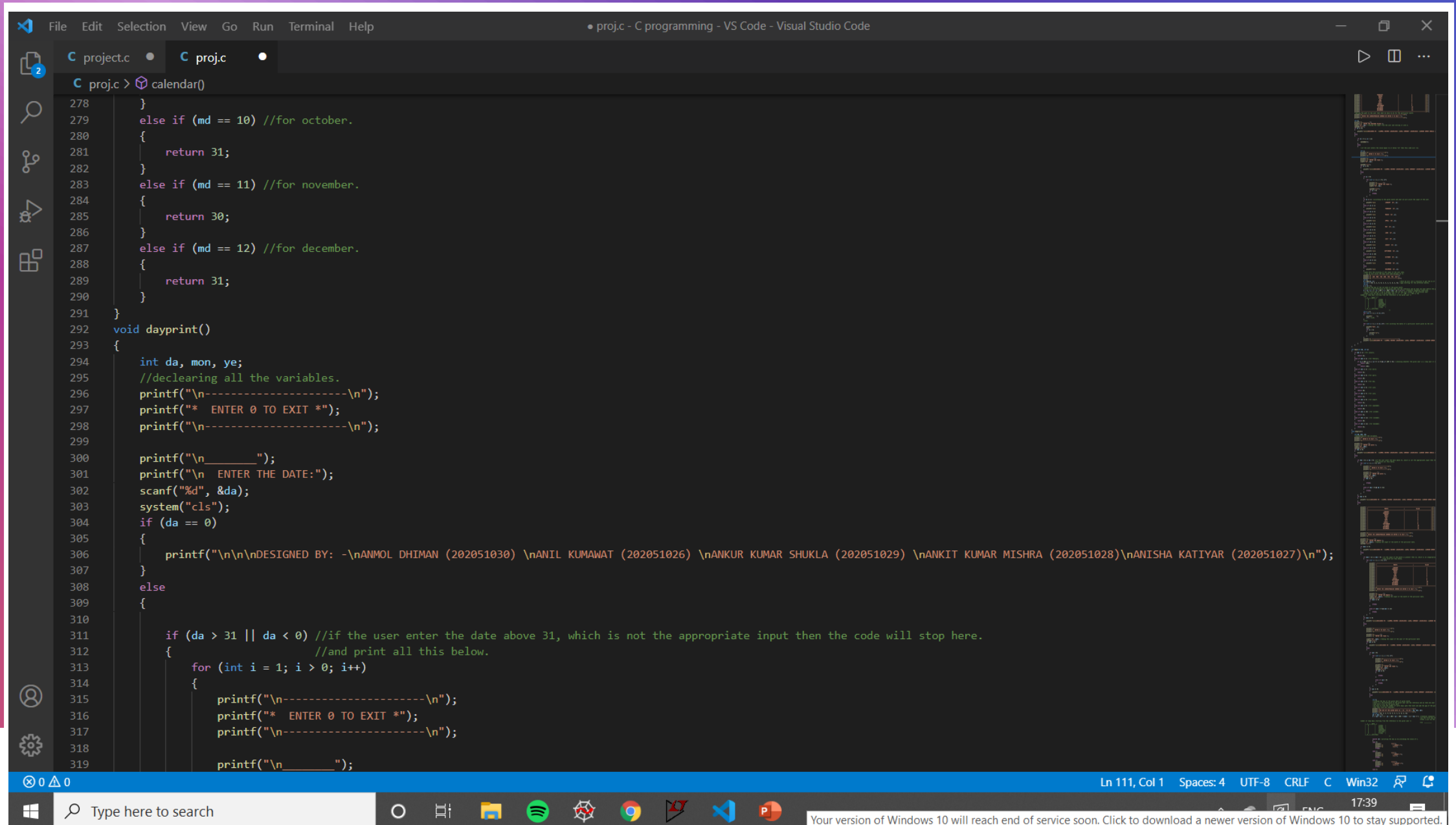
C

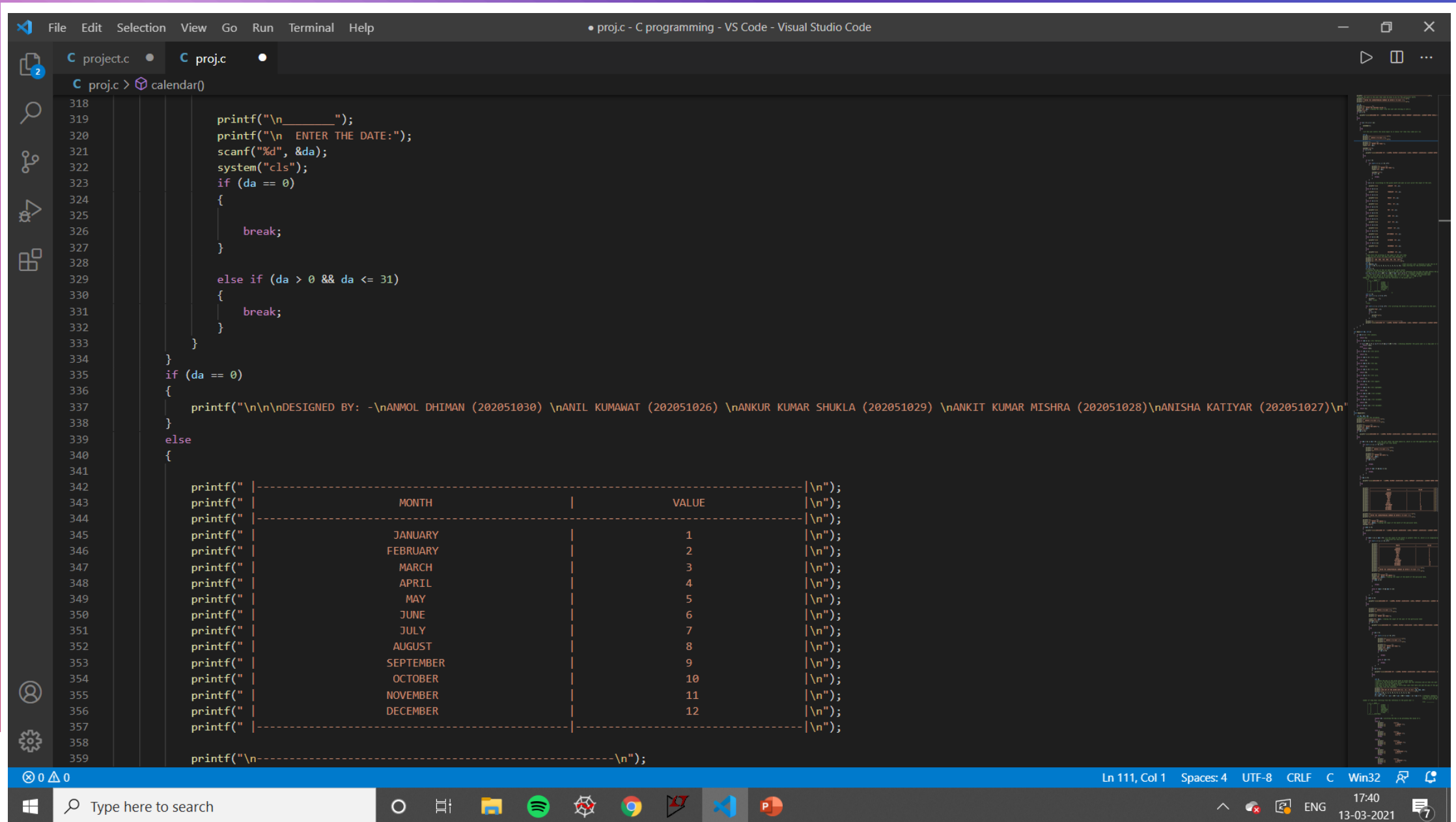
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C project.c • C proj.c

C proj.c > calendar()

```
358
359     printf("\n-----\n");
360     printf("* ENTER THE CORRESPONDING NUMBER OR ENTER 0 TO EXIT *");
361     printf("\n-----\n");
362
363     printf("\n_____");
364     printf("\n  ENTER THE MONTH:");
365     scanf("%d", &mon); //taking the input of the month of the paricular date.
366     system("cls");
367
368     if (mon == 0)
369     {
370         printf("\n\nDESIGNED BY: -\nANMOL DHIMAN (202051030) \nANIL KUMAWAT (202051026) \nANKUR KUMAR SHUKLA (202051029) \nANKIT KUMAR MISHRA (202051028)\nANISHA KATTIYAR (202051027)");
371     }
372     else
373     {
374
375         if (mon > 12 || mon < 0) //if the input of the month is greator then 12, which is an inappropriate input then code will stop here.
376         {
377             //and print all this below.
378             for (int i = 1; i > 0; i++)
379             {
380                 printf(" |-----|\n");
381                 printf(" |          MONTH          |          VALUE          |\n");
382                 printf(" |-----|\n");
383                 printf(" |          JANUARY          |          1          |\n");
384                 printf(" |          FEBRUARY         |          2          |\n");
385                 printf(" |          MARCH            |          3          |\n");
386                 printf(" |          APRIL             |          4          |\n");
387                 printf(" |          MAY               |          5          |\n");
388                 printf(" |          JUNE              |          6          |\n");
389                 printf(" |          JULY              |          7          |\n");
390                 printf(" |          AUGUST            |          8          |\n");
391                 printf(" |          SEPTEMBER         |          9          |\n");
392                 printf(" |          OCTOBER           |          10         |\n");
393                 printf(" |          NOVEMBER          |          11         |\n");
394                 printf(" |          DECEMBER          |          12         |\n");
395                 printf(" |-----|\n");
396                 printf("* ENTER THE CORRESPONDING NUMBER OR ENTER 0 TO EXIT *");
397                 printf("\n-----\n");
398
399                 printf("\n_____");
```

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File Edit Selection View Go Run Terminal Help

proj.c - C programming - VS Code - Visual Studio Code

2 C project.c C proj.c

C proj.c > dayprint()

```
398
399     printf("\n_____");
400     printf("\n  ENTER THE MONTH:");
401     scanf("%d", &mon); //taking the input of the month of the paricular date.
402     system("cls");
403     if (mon == 0)
404     {
405
406         break;
407     }
408
409     else if (mon > 0 && mon <= 12)
410     {
411         break;
412     }
413 }
414 }
415 if (mon == 0)
416 {
417     printf("\n\nDESIGNED BY: -\nANMOL DHIMAN (202051030) \nANIL KUMAWAT (202051026) \nANKUR KUMAR SHUKLA (202051029) \nANKIT KUMAR MISHRA (202051028)\nANISHA KATIYAR (202051027)");
418 }
419 else
420 {
421
422     printf("\n-----\n");
423     printf("*  ENTER 0 TO EXIT *");
424     printf("\n-----\n");
425
426     printf("\n_____");
427     printf("\n  ENTER THE YEAR:");
428
429     scanf("%d", &ye); //taking the input of the year of the particular date
430     system("cls");
431     if (ye == 0)
432     {
433         printf("\n\nDESIGNED BY: -\nANMOL DHIMAN (202051030) \nANIL KUMAWAT (202051026) \nANKUR KUMAR SHUKLA (202051029) \nANKIT KUMAR MISHRA (202051028)\nANISHA KATIYAR (202051027)");
434     }
435     else
436     {
437
438         if (ye < 0)
439         {
```

0 0 0

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17:40 13-03-2021

```
File Edit Selection View Go Run Terminal Help
proj.c - C programming - VS Code - Visual Studio Code

C project.c • C proj.c
C proj.c > dayprint()

438 if (ye < 0)
439 {
440     for (int i = 1; i > 0; i++)
441     {
442         printf("\n-----\n");
443         printf("* ENTER 0 TO EXIT *");
444         printf("\n-----\n");
445
446         printf("\n_____");
447         printf("\n ENTER THE YEAR:");
448         scanf("%d", &ye);
449         system("cls");
450         if (ye == 0)
451         {
452             break;
453         }
454
455         else if (ye > 0)
456         {
457             break;
458         }
459     }
460 }
461 if (ye == 0)
462 {
463     printf("\n\n\ndESIGNED BY: -\n\nANMOL DHIMAN (202051030) \nANIL KUMAWAT (202051026) \nANKUR KUMAR SHUKLA (202051029) \nANKIT KUMAR MISHRA (202051028)\nANISHA KATIYA
464 }
465 else
466 {
467
468
469     int k;
470     //finding the day of the given date of given month.
471     //here y is the difference of the given year and the reference and we take one year before the georgian year i.e. 0.
472     //and here d will be the given date.
473     //we have to find the number of extra days upto that date and add the gap of the given month and then add the date
474     //and then find the remainder.
475     printf("\n-----\n");
476     printf("|THE DAY OF THE GIVEN DATE %d / %d / %d IS|", da, mon, ye);
477     printf("\n-----\n");
478     int t[] = {0, 3, 2, 5, 0, 3, 5, 1, 4, 6, 2, 4};
479     ye -= mon < 3;
```

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proj.c - C programming - VS Code - Visual Studio Code

proj.c

proj.c

proj.c > dayprint()

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```
// and then find the remainder
printf("\n-----\n");
printf("|THE DAY OF THE GIVEN DATE %d / %d / %d IS|", da, mon, ye);
printf("\n-----\n");
int t[] = {0, 3, 2, 5, 0, 3, 5, 1, 4, 6, 2, 4};
ye -= mon < 3;
k = (ye + ye / 4 - ye / 100 + ye / 400 + t[mon - 1] + da) % 7; //tomohiko sakamotos algorithm.
//as the first day of 1 ad is monday then the 1st day will sunday of the previous year
//then y will be the no of extra days and y / 4 - y / 100 + y / 400 is the
number of leap days starting from the reference to the given year */
/*so _____
|_k_|_DAYS_| | | | | | |
| 0 |   |sunday|
| 1 |   |monday|
| 2 |   |tuesday|
| 3 |   |wednesday|
| 4 |   |thursday|
| 5 |   |friday|
| 6 |   |saturday|
|_|_|_|_|_|_|_|_|
*/
switch (k) //printing the day as by providing the value of k.
{
case 0:
printf("*****");
printf("\n      * SUNDAY *");
printf("\n*****");
break;
case 1:
printf("*****");
printf("\n      * MONDAY *");
printf("\n*****");
break;
case 2:
printf("*****");
printf("\n      * TUESDAY *");
printf("\n*****");
break;
case 3:
printf("*****");
```

Ln 422, Col 58

Spaces: 4

UTF-8

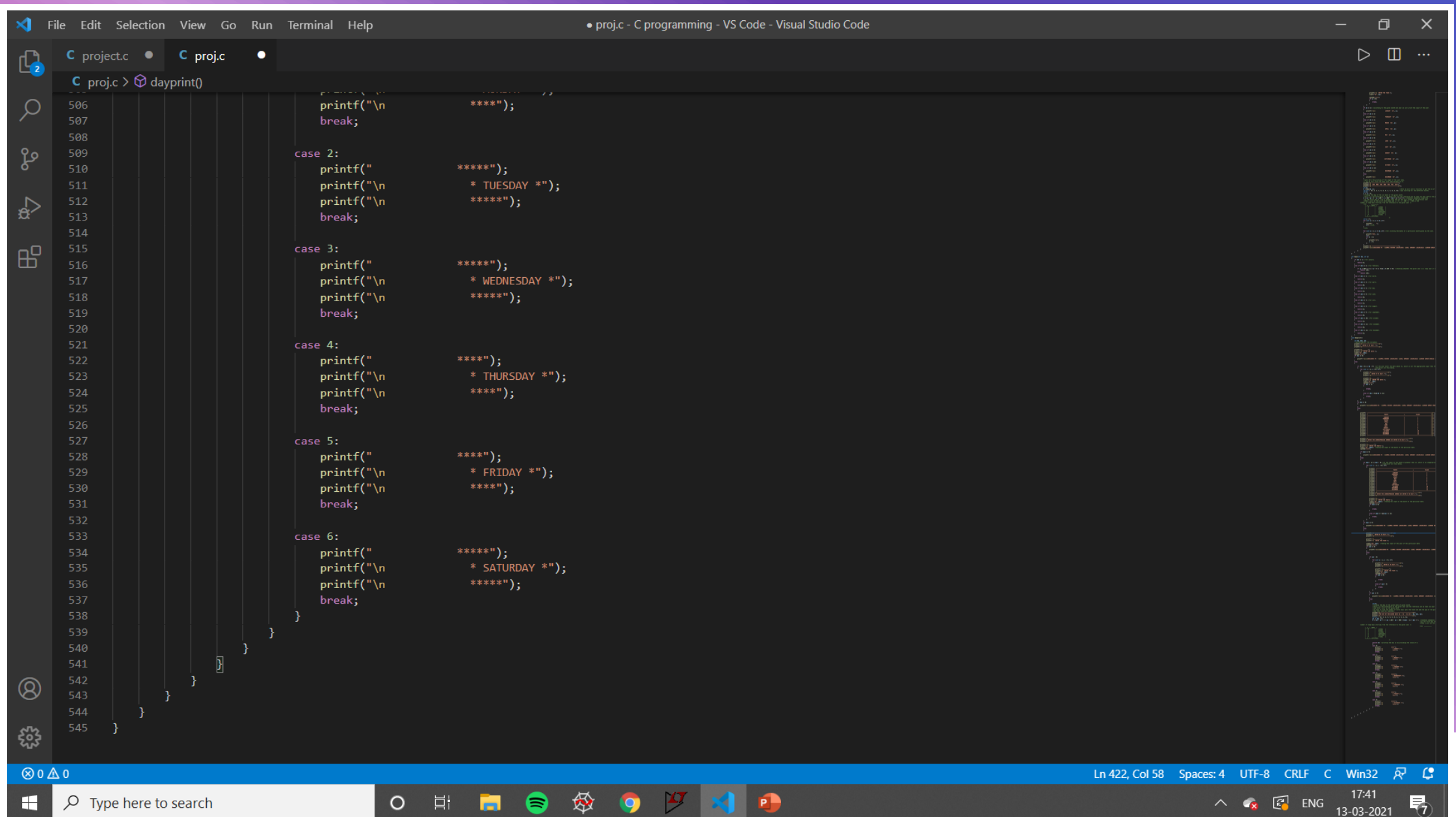
CRLF

C

Win32

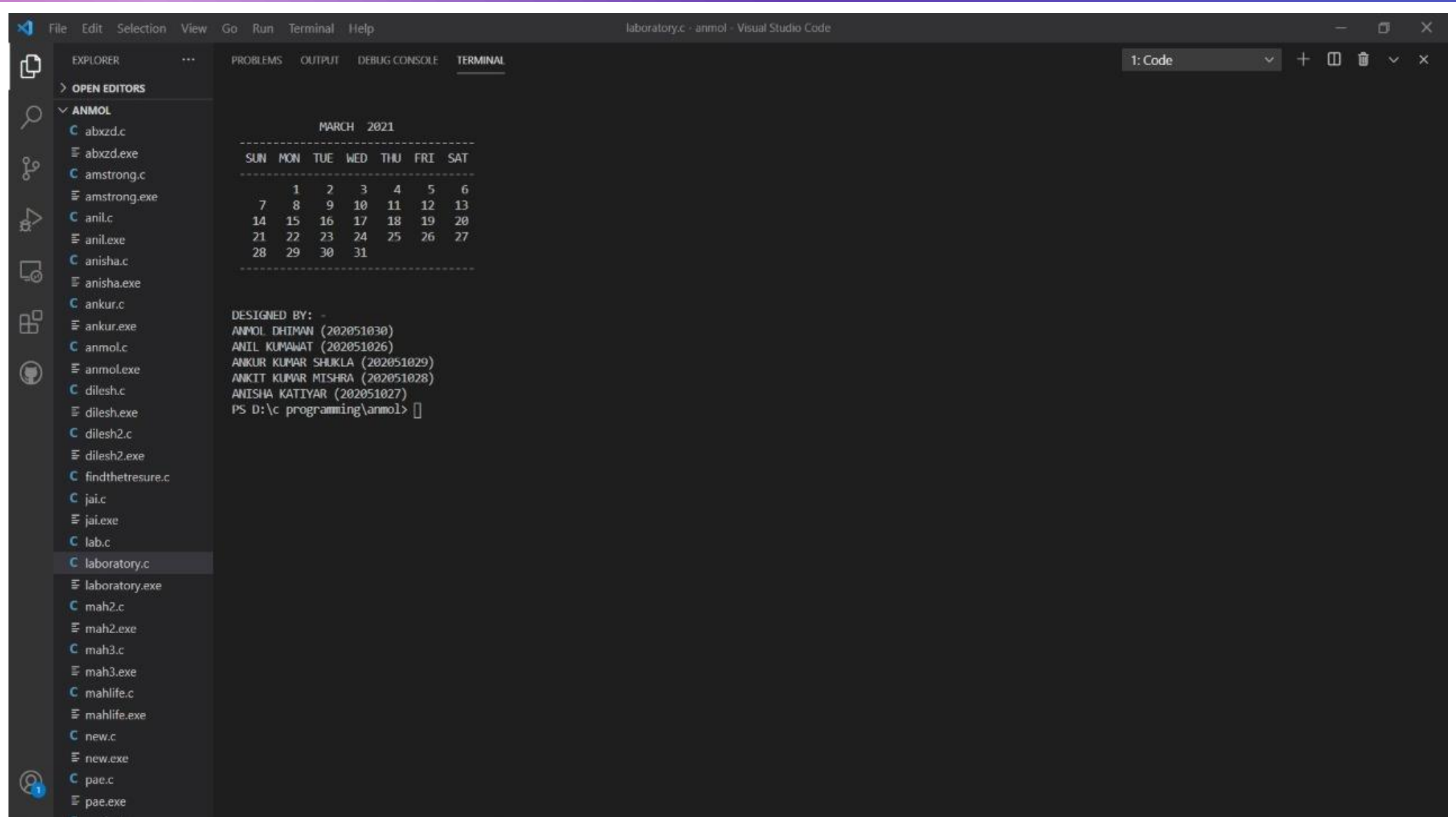
17:41

13-03-2021



[illegible]

Sample Outputs :-



laboratory.c · anmol - Visual Studio Code

1: Code

EXPLORER

> OPEN EDITORS

ANMOL

- abxzd.c
- abxzd.exe
- amstrong.c
- amstrong.exe
- anil.c
- anil.exe
- anisha.c
- anisha.exe
- ankur.c
- ankur.exe
- anmol.c
- anmol.exe
- dilesh.c
- dilesh.exe
- dilesh2.c
- dilesh2.exe
- findthetresure.c
- jai.c
- jai.exe
- lab.c
- laboratory.c
- laboratory.exe
- mah2.c
- mah2.exe
- mah3.c
- mah3.exe
- mahlife.c
- mahlife.exe
- new.c
- new.exe
- pae.c
- pae.exe

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

MARCH 2021

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

DESIGNED BY: -

ANMOL DHIMAN (202051030)

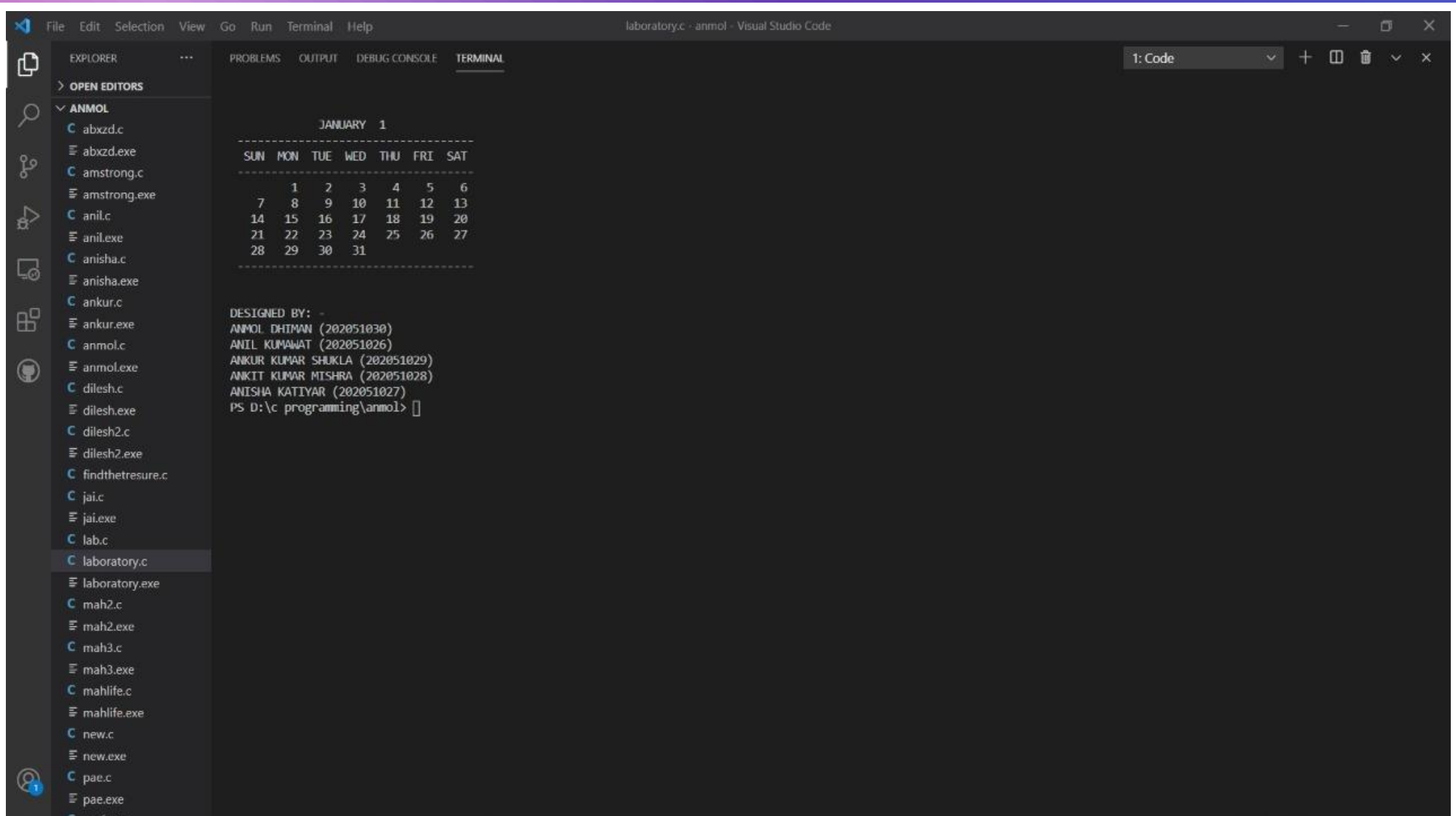
ANIL KUMAWAT (202051026)

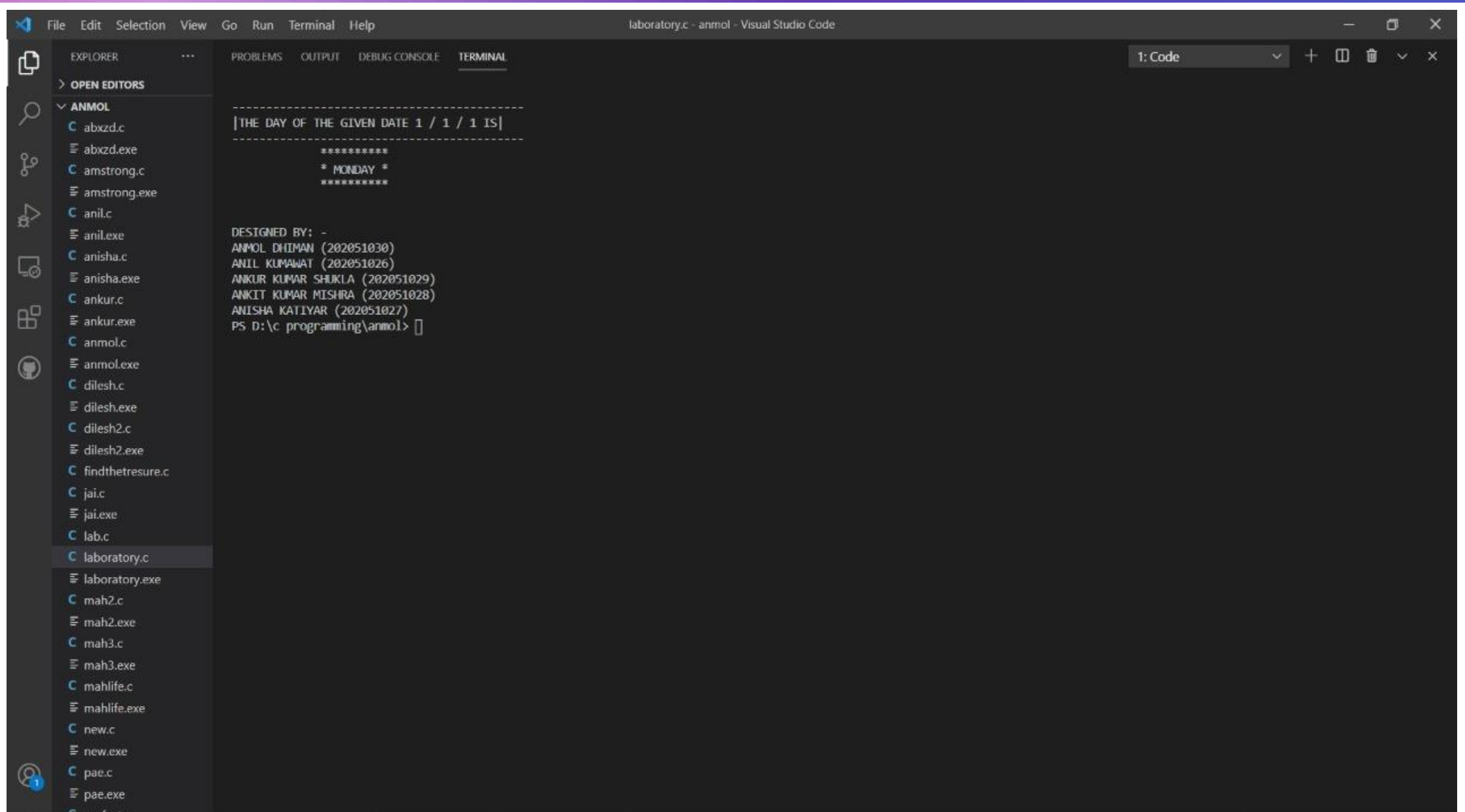
ANKUR KUMAR SHUKLA (202051029)

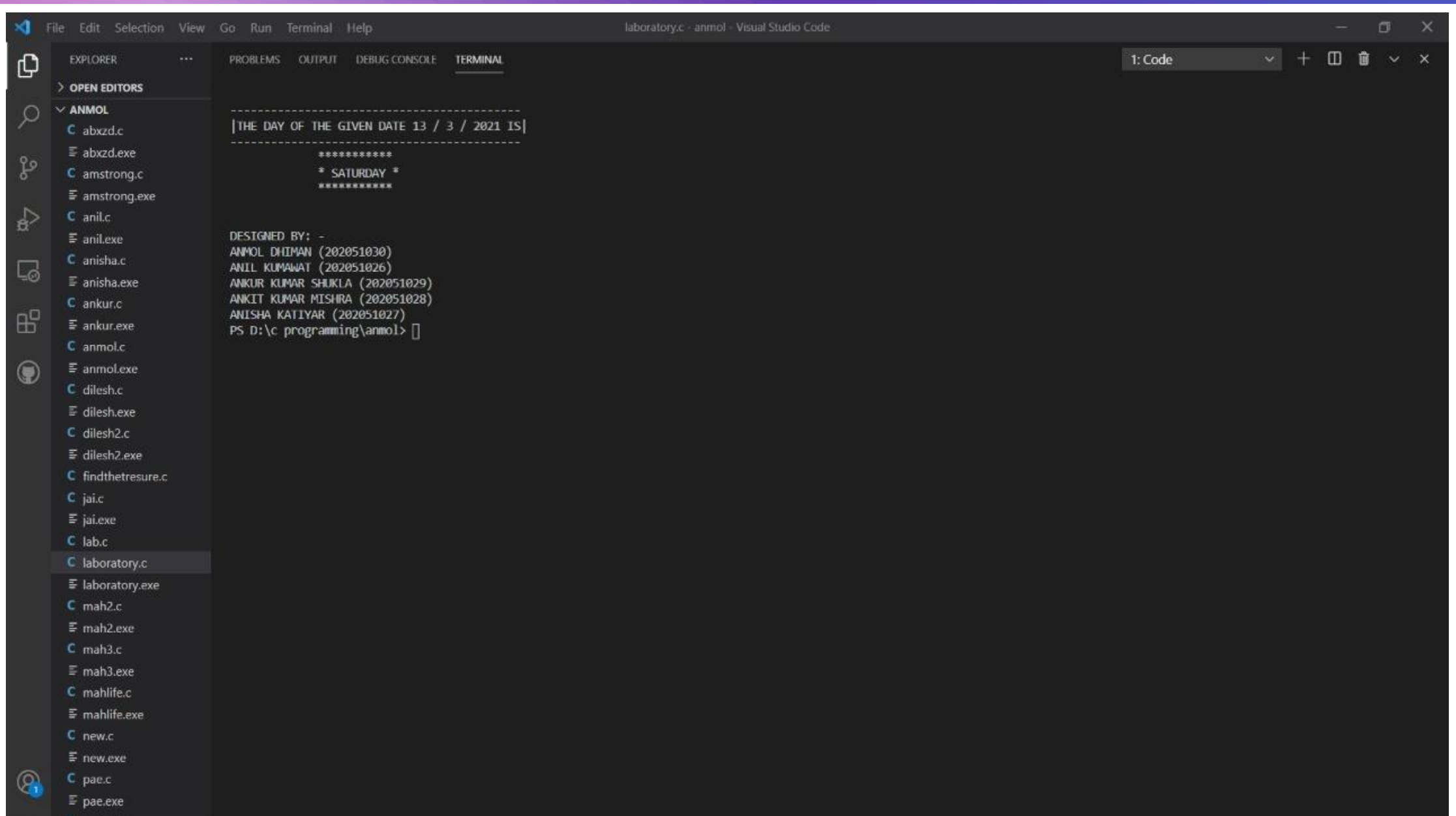
ANKIT KUMAR MISHRA (202051028)

ANISHA KATTIYAR (202051027)

PS D:\c programming\anmol>







Contributions and References :-

- ❖ This code has been build up from the logic related to repeating dates, months and years (including cases for leap years) in continuation with the pattern of the Gregorian Calendar.
- ❖ From our pre requisite knowledge, we were able to build up this code for the year 2001-2030.
- ❖ But to extend it even further, including the years before and after this, we took help of the “TOMOHIKO SAKAMOTOS ALGORITHM” .
- ❖ References from the internet have been taken from websites :
 - Geeks for geeks
 - Quora

All members have equally contributed for the success of this code which involved building the logic, deciding the order, implementing procedures and statements, beautifying the code for better readability, modifying the screen for proper display of the output and finally, in compiling it all and creating this presentation.

So, at last, we would like to express our gratitude for letting us have an opportunity to work upon this topic.

GROUP MEMBERS :

- (1) 202051026 - ANIL KUMAWAT
- (2) 202051027 - ANISHA KATIYAR
- (3) 202051028 - ANKIT KUMAR MISHRA
- (4) 202051029 - ANKUR KUMAR SHUKLA
- (5) 202051030 - ANMOL DHIMAN

-----The End-----