```
Source History 💼 🔯 👼 + 👼 + 💆 + 💆 🔁 😂 📮 😭 🗞 🗞 🖭 💇 🛂 💿 🔡 鑑 🚅 🔡
  #include "dates.h"
   #include "mcc_generated_files/mcc.h"
4 🗏 /*
 5
                      Main application
 6
 7
   void main(void)
8 🗏 {
9
       // Initialize the device
10
       SYSTEM Initialize();
11
       int y,z;
12
       int u;
13
       int year=2020,month=6, day=21;
14
15
       y= leap_year(year);
       printf("\n\r\n\r\d",y);
16
17
       z=day number(year, month, day);
18
       printf("\n\r The %d day of %d month is the day %d in the year %d", day, month, z, year);
19
       int y1=1867, m1=07, d1=1, y2=2018, m2=2, d2=5;
20
21
       u=day difference(y1,m1,d1,y2,m2,d2);
       printf("\n\r\nthe difference between %d month %d day %d and %d month %d day %d is %u ",y1,m1,d1,y2,m2,d2,u);
22
23
24
25
          // Add your application code
26
27
COM4 - PuTTY
                                                                                           The 21 day of 6 month is the day 173 in the year 2020
The difference between 1927 month 0 day 5 and 0 month 21 day 0 is 2018
The 21 day of 6 month is the day 173 in the year 2020
The difference between 1927 month 0 day 5 and 0 month 21 day 0 is 2018
The 21 day of 6 month is the day 173 in the year 2020
The difference between 1927 month 5 day 21 and 2018 month 2 day 5 is 33133
The 21 day of 6 month is the day 173 in the year 2020
The difference between 1867 month 7 day 1 and 2018 month 2 day 5 is 55006
The 21 day of 6 month is the day 173 in the year 2020
The difference between 1867 month 7 day 1 and 2018 month 2 day 5 is 55006
Manager x System Module x Interrupt Module x
Source History 💼 | 🚱 👼 - 👼 - | 🔍 🐶 😂 📮 📮 | 🍄 😓 | 🔄 🖭 🖭 | ● 📵 | 🕮 🚅 🚱
     int leap year(int year);
2
     int day number(int year, int month, int day);
3
     int day difference (int year1, int month1, int day1, int year2, int month2, int day2);
4
```

```
™ gates.n x ™ gates.c x ™ main.c x | Available Resources x | Pin Module x | DMA Manager x | System Module
Source History 💼 | 🚱 👺 🔻 🔻 🔻 🞝 😓 📮 🖫 | 🍄 😓 | 🚉 💇 | 🍥 🔲 | 👑 🚅 👺
      = #include <stdio.h>
   1
         #include <stdlib.h>
   2
         #include <string.h>
   3
         #include <math.h>
   4
       #include "dates.h"
   5
         int leap_year(int year)
      □ {
   8
              int y;
   9
              if (year%4==0)
 10
 11
                    if(year%100==0)
 12
 13
                         if (year%400==0)
 14
 15
 16
                              y=1;
 17
                         else
 18
 19
 20
                              y=0;
 21
 22
                   else
 23
 24
 25
                         y=1;
 26
 27
 28
              else
 29
```

```
🕮 dates.h 🗴 🖭 dates.c 🗴 🖭 main.c 🗴 Available Resources 🗴 Pin Module 🗴 DMA Manager 🗴 System Module 🗴 Interrupt Module 🗴
Source History 👚 🔯 🐺 + 🐺 + 💆 + 💆 🚭 🚭 📮 😭 🚱 😂 💇 📦 🔛 🕮 🚅 👺
 28
             else
 29
 30
                  y=0;
 31
 32
             return y;
 33
 34
 35
        int day_number(int year, int month, int day)
 36
             int x;
 37
 38
             x=leap year(year);
             //array for number of days in month according to leap year
 39
 40
             int k;
             if(x==0)
 41
 42
 43
                  k=28;
 44
             else
 45
 46
                  k=29;
 47
 48
 49
             int number[13]={0,31,k,31,30,31,30,31,30,31,30,31};
             int days=0;
 50
             int i;
 51
 52
 53
             for(i=0;i<month;i++)</pre>
 54
                  days += number[i];
 55
56 day difference
```

```
L }
   int day_difference(int year1,int month1,int day1,int year2,int month2,int day2)
₽ {
       int i, k, sum1=0, sum2=0;
       if(year1!=year2 && year1<year2) // to check if the year is same because I used seperate code for same year and different years.
       for(i=year1;i<year2;i++)
                                      // counts full year number of days of leap and non leap years
           k=leap_year(i);
           if(k==1)
               sum1 += 366;
           else
               sum2 += 365;
      // below is subtracts or adds to the above sum according to the math i used to calculate the number of days
       int j,m;
       j=leap_year(year1);
       if(j==1)
           m=day_number(year1,month1,day1);
   의 기록으로 가능 ( Manusca x ) 전 제외 대로 X Assibile Resources x ) Pin Module x | DMA Manager x | System Module x | Interrupt Module x |
History 게 많은 등 등 하 기 및 문 문 및 가 운 등 및 및 및 용 표 및 용
 79
       // below is subtracts or adds to the above sum according to the math i used to calculate the number of days
 80
            int j,m;
 81
            j=leap_year(year1);
            if(j==1)
 82
 83
 84
                 m=day_number(year1,month1,day1);
 85
 86
            else
 87
            {
 88
                 m=day_number(year1,month1,day1);
 89
            int o,p;
 90
 91
            o=leap_year(year2);
 92
            if (o==1)
 93
 94
                p=day number(year2, month2, day2);
 95
 96
            else
 97
            {
 98
                 p=day_number(year2,month2,day2);
 99
100
            int h;
101
            h=p-m;
102
            return sum1+sum2+h;
103
104
105
```

106