

20BCS042 MOHD ADIL

PROGRAM 8:

```
#include <stdio.h>
#include<stdlib.h>

int daysafterNmonths[12] = {31, 59, 90, 120, 151, 181, 212, 243,
273, 304, 334, 365};
int leapyear(int m,int y)//from 0 year to y years
{
    if (m<=2)
    {
        y--;
    }
    return (y / 4) - (y / 100) + (y / 400);
}
int main()
{
    int d1 = 0, m1 = 0, y1 = 0;
    int d2 = 0, m2 = 0, y2 = 0;
    char date[21];
    printf("Enter the two Dates : ");
    gets(date);
    int i = 0;
    while (date[i] != '-')
    {
        d1 = d1 * 10 + date[i] - '0';
        i++;
    }
    while (date[i] == '-')
    {
        i++;
    }
    while (date[i] != '-')
    {
        m1 = m1 * 10 + date[i] - '0';
        i++;
    }
    while (date[i] == '-')
    {
        i++;
    }
    while (date[i] != ',')
```

```

{
    y1 = y1 * 10 + date[i] - '0';
    i++;
}
while (date[i] == ',')
{
    i++;
}
while (date[i] != '-')
{
    d2 = d2 * 10 + date[i] - '0';
    i++;
}
while (date[i] == '-')
{
    i++;
}
while (date[i] != '-')
{
    m2 = m2 * 10 + date[i] - '0';
    i++;
}
while (date[i] == '-')
{
    i++;
}
while (i < 21)
{
    y2 = y2 * 10 + date[i] - '0';
    i++;
}
if (m1 > 12 || m1 < 0 || m2 > 12 || m2 < 0 || d1 > 31 || d1 < 0 || d2 > 31
|| d2 < 0)
{
    printf("Invalid Date\n");
    exit(0);
}

int no_of_leap_year = abs(leapyear(m1,y1)-leapyear(m2, y2));
int no_of_days=abs((y1*365+d1+daysafterNmonths[m1-1])-
(y2*365+d2+daysafterNmonths[m2-1]))+no_of_leap_year;

printf("Total number of days between (%s) is %d", date,
no_of_days);
return 0;
}

```

OUTPUT:

```
PS C:\Users\aadil\Desktop\CSE\clab> cd "c:\Users\aadil\Desktop\CSE\clab\" ; if ($?) { gcc program8.c -o program8 } ;  
Enter the two Dates : 14-10-2021,12-01-1880  
Total number of days between (14-10-2021,12-01-1880) is 51775  
PS C:\Users\aadil\Desktop\CSE\clab> 
```