

A Micro Project Report

on

Problem Solving using C Language

Submitted by
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)**

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Palnadu(Dt.), Andhra Pradesh, India**

2024-2025

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET
(AUTONOMOUS)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that **SHAIK MEERA MUQTHYAR**, Roll No: **23471A05EL**, a Second Year Student of the Department of Computer Science and Engineering, has completed the Micro Project Satisfactorily in “Problem Solving using C Language” for the Academic Year 2024-2025..

Project Co-Ordinator

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| S.No | Description |
|------|---|
| 1. | Write a C Program to display a monthly/annual calendar with current date highlighting |

Highlighting of the current date in a Calendar

AIM:

Write a C Program to display a monthly/annual calendar with current date highlighting

```
#include <stdio.h>
#include <time.h>
void print_monthly_calender(int year,int month,int day);
int main()
{
    time_t now=time(NULL);
    struct tm *t=localtime(&now);
    int year = t->tm_year+1900;
    int month = t->tm_mon+1;
    int day = t->tm_mday;
    print_monthly_calender(year, month, day);
    return 0;
}
void print_monthly_calender(int year,int month,int day)
{
    int days_in_month[]={31,28,31,30,31,30,31,31,30,31,30,31};
    if((year%4==0 && year%100!=0) || (year%400==0))
    {
        days_in_month[1]=29;
    }
    struct tm first_day={0};
    first_day.tm_year=year-1900;
    first_day.tm_mon=month-1;
    first_day.tm_mday=1;
    mktime(&first_day);
    int start_day=first_day.tm_wday;
```

```

printf("Calendar for %02d/%d\n",month,year);
printf("SunMonTueWedThuFriSat\n");
for(int i=0;i<start_day;i++)
{
    printf(" ");
}
for(int date=1;date<=days_in_month[month-1];date++)
{
    if(date==day)
    {
        printf("%2d*",date);
    }
    else
    {
        printf("%3d",date);
    }
    if((start_day+date)%7==0)
    {
        printf("\n");
    }
}
printf("\n");
}

```

OUTPUT:

```

Calendar for 11/2024
SunMonTueWedThuFriSat
                1  2
3  4  5  6  7  8  9
10 11 12 13 14 15* 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30

```

Output

```
Calendar for 11/2024
SunMonTueWedThuFriSat
      1  2
  3  4  5  6  7  8  9
10 11 12 13 14 15* 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
```