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)

Accredited by NAAC with A+ Grade and NBA under Tier-1

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2024-2025

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that Pamisetty Divya jyothi, Roll No: 23471A0548, 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..

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Display a calender with current date

AIM:

Display a monthly/annual calender 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("calender 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 :

```
Calender 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
```