REPORT

C Programming on Multiple Platforms-

Project Based Learning Approach

NAME : Ajay Bhat

PS NO: 99007697

Project Title: Calendar Application

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Description

- It is the application to display the month by month calender for a input year.For a given year Display the month by month calender

Requirements

Feature

- Display Date and week of the month.
- Display Leap Year .

High level requirements

ID	Description	category	Status
HLR1	User menu display calendar	Technical	Implemented
HLR2	Display of Day	Technical	Implemented
HLR3	Display Date and Month with respect to year	Technical	Implemented

Low Level Requirement

ID	Description	Category	Status
LLR1	User choice of year of calendar	Technical	Implemented
LLR2	User choice of day, month with respect to year	Technical	Implemented

SWOT Analysis

5W & 1H

Who

- User

When

- When user wants to check date.

Where

- In mobile, laptop, Pcs,

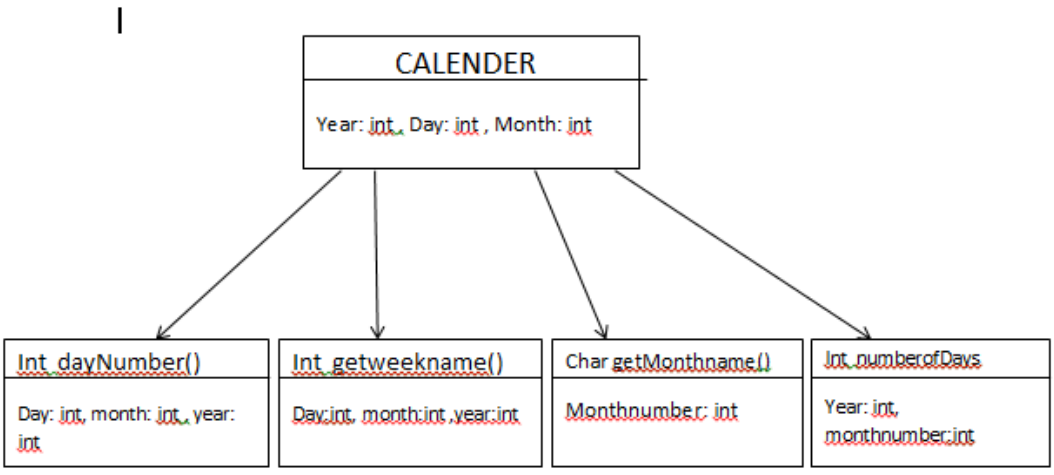
What

- It is application for calendar which display date ,day.

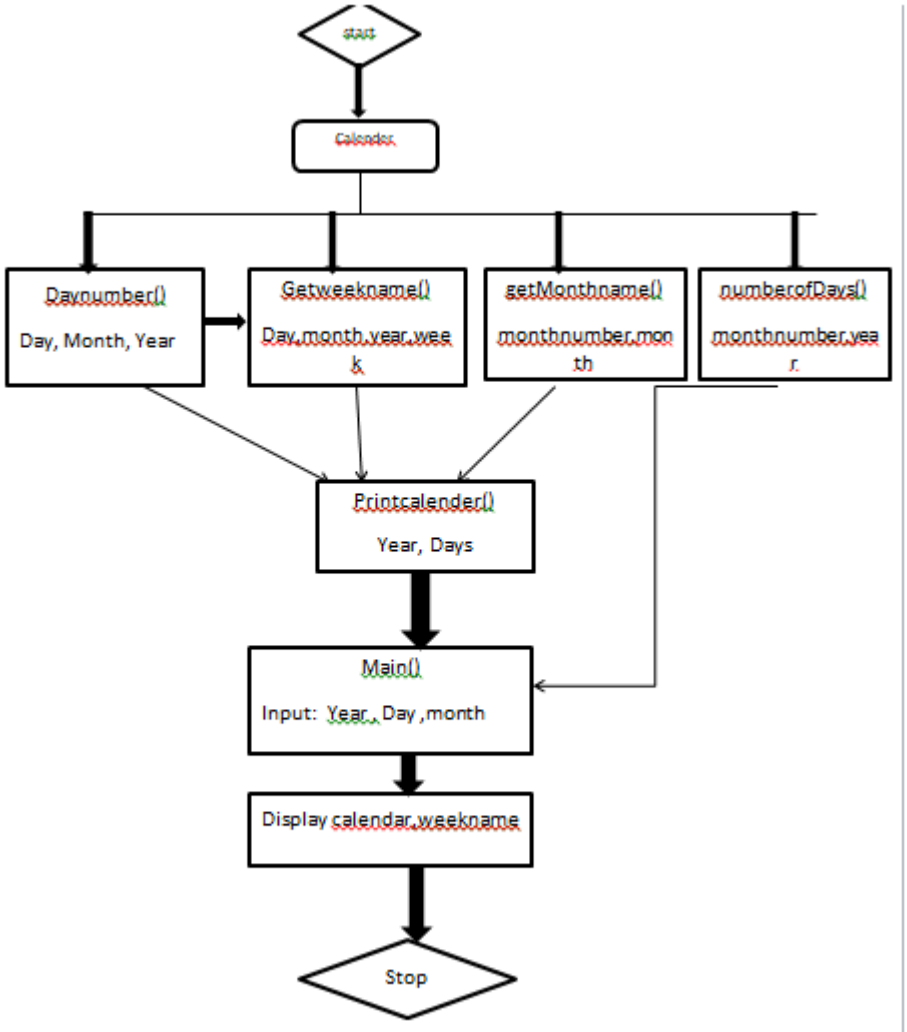
How

- By storing records of date, month, year.

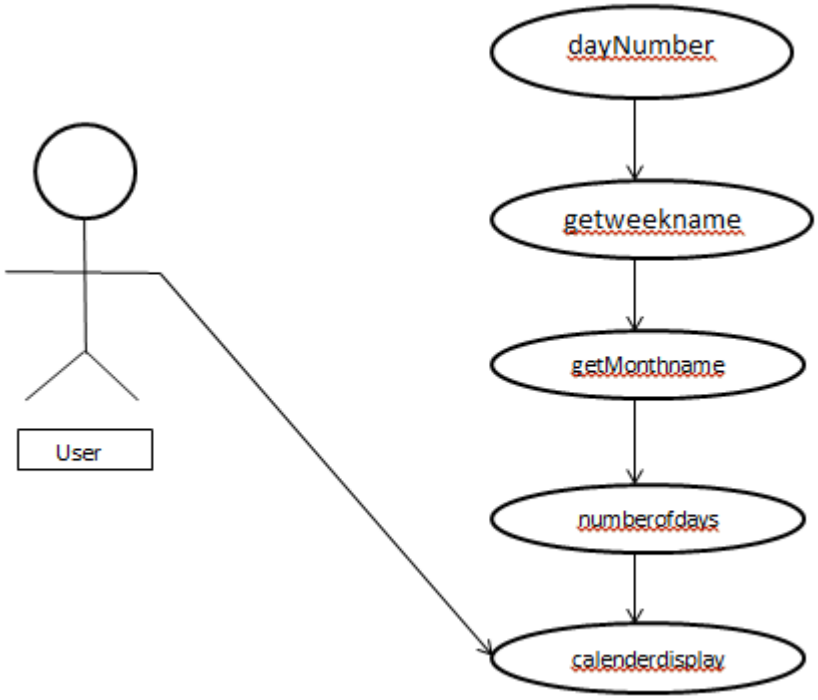
Structural Diagram



Flow Chart


start
Calender
Daynumber()
Day, Month, Year
Getweekname()
Day,month,year,week
getMonthname()
monthnumber,month
numberofDays()
monthnumber,year
Printcalender()
Year, Days
Main()
Input: Year , Day ,month
Display calendar,weekname
Stop

CLASS DIAGRAM



Test Plan and Output

High level test Plan

Test ID	Description	Expected i/p	Expected o/p	Actual O/p	Type of test	status
H_01	Display weekname	Program execution	weekname display	weekname display	Requirement	completed
H_02	Check the calendar of year	program execution	calendar of year display	calendar of year display	Requiremnent	completed
H_03	check input for	user choice	Proper display of	Proper display of	Requirement	completed

Test ID	Descriptio n	Expecte d i/p	Expected o/p	Actual O/p	Type of test	status
	day month year		detail and read input	detail and read input		

Low level test Plan

Test ID	Description	Expected i/p	Expected o/p	Actual o/p	Type of test
L_01	Calender details entered by user	Reading the input and display calender year	Reading the input and display calender year	Technical	
L_02	Calender display	Display entire calender with correct weeknmae according to month	Display entire calender with correct weeknmae according to month	Technical	

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Test ID	Description	Expected i/p	Expected o/p	Actual o/p	Type of test	Status
L_01	Calendar details entered by user	Reading the input and display calendar year	Reading the input and display calendar year	Technical		completed
L_02	Calendar display	Display entire calendar	Display entire calendar	Technical		completed

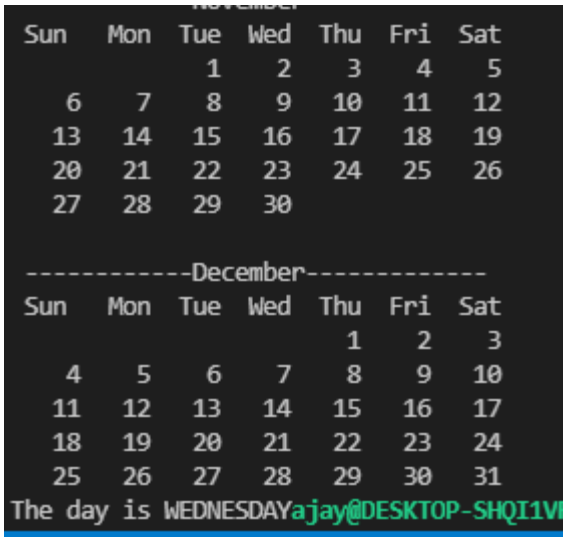
Test ID	Description	Expected i/p	Expected o/p	Actual o/p	Type of test	Status
		with correct weekname according to month	with correct weekname according to month			

Test Input & Output

Input from Makefile

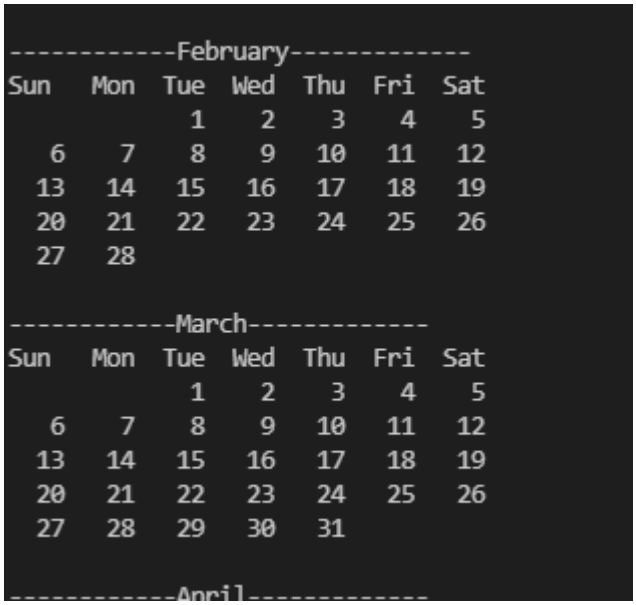
```
ajay@DESKTOP-SHQI1VR:/mnt/e/M1_Calender_app/3_implementation$ make Run
gcc Project_main.c calender.c -o calender.out
./calender.out
enter year:2022
enetr day:/neneter month:02 03
     Calendar - 2022
```

Test Output



```
Sun   Mon   Tue   Wed   Thu   Fri   Sat
                  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

-----------December-------------
Sun   Mon   Tue   Wed   Thu   Fri   Sat
                              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    31
The day is WEDNESDAYajay@DESKTOP-SHQI1V
```



```
-----------February-------------
Sun   Mon   Tue   Wed   Thu   Fri   Sat
                  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

-----------March-------------
Sun   Mon   Tue   Wed   Thu   Fri   Sat
                  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    31

-----------April-------------
```