**CALENDAR**

**A Mini Project**

**Academic Year : 2021 - 22 ODDSEMESTER**

**Department with Specialization : B.Tech., Artificial**

**intelligence**

**Semester : I**

**Course Code : 18CSS101J**

**Course Title : Programming for**

**Problem solving**

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Aim of the project:-

The main aim of the project is to set up a calender you desire. We can get the full calender the year which you want. It is simply a basic calender you can find the day of the respective date and the months of the year. We can also verify weather it’s a leap year or not.

Algorithm of the project:-

▪ Start the program .

▪ Select the Year functionality.

▪ Get the formule for the starting day of the year.

▪ Use the loop for each month.

▪ Use If function for the leap years.

▪ End the program

Source code: -

#include<stdio.h>

#include<stdlib.h>

int get\_1st\_weekday(int year){

int d;

d=((((year - 1)\*365)+((year-1)/4)-((year- 1)/100)+((year)/400)+1)%7)-1;

return d;

}

int main()

{

int year,month,day,daysinmonth,weekday=0,startingday;

printf("\nenter the year you want:");

scanf("%d",&year);

char \*months[]={"January","February","March","April","May","June","July","August","September","October","November","December"};

int monthDay[]={31,28,31,30,31,30,31,31,30,31,30,31};

if((year%4==0&&year%100!=0)||year%400==0)

monthDay[1]=29;

startingday= get\_1st\_weekday(year);

for(month=0;month<12;month++){

daysinmonth=monthDay[month];

printf("\n\n------------------%s-----------------\n",months[month]);

printf("\n sun mon tue wed thus fri sat\n");

for(weekday=0;weekday<=startingday;weekday++)

printf(" ");

for(day=1;day<=daysinmonth;day++){

printf("%5d",day);

if(++weekday>6){

printf("\n");

weekday=0;

}

startingday=weekday-1;}

}

}

OUTPUT:-



