1. Code:

//Calender using C

#include<stdio.h>

int get\_1st\_weekend(int year){

int day;

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

return day;

}

int main(){

int year,day,numberofdays,weekend,startingday;

char month;

printf("Enter the year you want: ");

scanf("%d",&year);

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

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

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

daysinmonth[1]=29;

startingday=get\_1st\_weekend(year);

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

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

printf("\n\n Sun Mon Tue Wed Thurs Fri Sat\n\n");

for(weekend=0;weekend<startingday;weekend++){

printf(" ");

}

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

numberofdays=daysinmonth[month];

printf("%5d",day);

if(++weekend>6){

printf("\n");

weekend=0;

}

startingday=weekend;

}

}

}

Algorithm:

1. Start
2. Year
3. Read year
4. If(year Mod 400=0) then {

write “year is a leap year”

}

else if(year Mod 100=0) then

{

write “not a leap year”

}

Else if(year Mod 4=0) then

{

Write “leap year”

}

1. Stop

Flowchart:

