```
#include <stdio.h>
int starting_day_calculator(int year)
{
   int d;
   d=(((year-1)*365)+((year-1)/4)-((year-1)/100)+((year)/400))%7;
   return d;
}
int main()
{
  int year, yearInp, i, m, d, weekDay, startingDay, day, month, dayCalc, months2Days;
  char note[200];
  int nodays[12] = {31,28,31,30,31,30,31,30,31,30,31};
  if((year%4==0)&&(year%100!=0)||(year%400==0))
   {
     nodays[1]=29;
   }
  char *monthName[] =
{"January","February","March","April","May","June","July","August","September","October","Nove
mber","December"};
  printf("\nHello. This calendar can display Days and Months of a specific Year.");
  printf("\nPlease enter a year: ");
  scanf("%d",&yearInp);
  year=yearInp;
  startingDay=starting_day_calculator(year);
  if(yearInp!=0)
  {
```

printf("\nThe Calendar for Year %d is: ",yearInp);

```
printf("\n______
                                           _");
   for(i=0;i<=11;i++)
     printf("\n\n ______ %s
 ______",monthName[i]);
     printf("\n Mon Tue Wed Thurs Fri Sat Sun\n");
     for(weekDay=0;weekDay<startingDay;weekDay++)</pre>
     {
       printf(" ");
     }
     for(d=1;d<=nodays[i];d++)
     {
       {
       printf("%7d",d);
       if(++weekDay>=7)
       {
         printf("\n");
         weekDay=0;
       }
       startingDay=weekDay;
       }
     }
```

```
}
}
else
{
 printf("Invalid Year Entered");
 exit(1);
}
printf("Enter Day: ");
scanf("%d",&day);
printf("\nEnter Month: ");
scanf("%d",&month);
printf("\nEnter Year: ");
scanf("%d",&year);
printf("\n");
 months2Days=0;
 for(i=0;i<month;i++)</pre>
 {
 months2Days=nodays[i]+months2Days;
 dayCalc = (((year-1)*365) + ((year-1)/4) - ((year-1)/100) + ((year)/400) + day+months2Days+4)\%7;
 switch (dayCalc)
 {
  case 0:
   printf("The Day is Monday on %d-%d-%d.",day,month,year);
   break;
   case 1:
```

```
printf("The Day is Tuesday on %d-%d-%d.",day,month,year);
      break;
     case 2:
      printf("The Day is Wednesday on %d-%d-%d.",day,month,year);
      break;
     case 3:
      printf("The Day is Thursday on %d-%d-%d.",day,month,year);
      break:
     case 4:
      printf("The Day is Friday on %d-%d-%d.",day,month,year);
      break;
     case 5:
      printf("The Day is Saturday on %d-%d-%d.",day,month,year);
      break;
     case 6:
      printf("The Day is Sunday on %d-%d-%d.",day,month,year);
      break;
    }
    if(day-month-year==27-12-2020)
    {
      printf("There is a note for this date.\n Akshita's birthday.");
    }
    else
    {
      printf("There are no notes for the date entered. If you wish to take a note for this date, you
can enter the note or press Enter:\n");
      scanf("%s",&note);
      printf("\n Note Saved Successfully.");
    }
    printf("\n\nPlease enter the specific Month and Year to be displayed: \n");
```

```
printf("Month:");
scanf("%d",&month);
printf("\nYear:");
scanf("%d",&year);
printf("The calendar for %s, %d is:",monthName[month-1],year);
startingDay=starting_day_calculator(year);
printf("\n\n ______%s
     _",monthName[month-1]);
  printf("\n Mon Tue Wed Thurs Fri Sat Sun\n");
{
  for(weekDay=0;weekDay<(startingDay-1);weekDay++)</pre>
  {
    printf(" ");
  }
  for(d=1;d<=nodays[month-1];d++)</pre>
  {
    {
    printf("%7d",d);
    if(++weekDay>=7)
      printf("\n");
      weekDay=0;
    }
    startingDay=weekDay;
    }
```

```
}
        // getch();
       return 0;
     }
                                                                                                                                            X
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Hello. This calendar can display Days and Months of a specific Year.
Please enter a year: 2020
The Calendar for Year 2020 is:
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                       February ___
Wed Thurs
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}

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