/* 1. Write a C program that keeps a number from the user and generates an integer between 1 and 7 and displays th e name of the weekday.*/

```
#include <stdio.h>

int main(){
 int day;
 printf("---WEEKDAY---\n\n");
 printf("Please Enter an Integer Between 1 and 7 : " );
 scanf("%d",&day );
 printf("\n");
 switch (day) {
  case 1:
  printf("The %dst day of the week is : Monday",day);
  break;
  case 2:
  printf("The %dnd day of the week is : Tuesday",day);
  break;
  case 3:
  printf("The %drd day of the week is : Wednesday",day);
  break;
  case 4:
  printf("The %dth day of the week is : Thursday",day);
  break;
  case 5:
  printf("The %dth day of the week is : Friday",day);
  break;
  case 6:
  printf("The %dth day of the week is : Saturday",day);
  break;
  case 7:
  printf("The %dth day of the week is : Sunday",day);
  break;
 }
return 0 ;

}
```

/*2. Write a C program that reads in two floating-point numbers and tests whether they are the same up to three deci mal places. */

```
#include <stdio.h>

int main(){
float fpoint,fpoint1;
printf("---FLOATING-POINT TEST PROGRAM---\n\n");
printf("Please Enter First Floating-Point : " );
scanf("%f",&fpoint);

printf("Please Enter Second Floating-Point : " );
scanf("%f",&fpoint1);
```

```
fpoint = int(fpoint * 1000);
fpoint1 = int(fpoint1 * 1000);

printf("\nFirst  : %.f \nSecond : %.f\n",fpoint,fpoint1);

 if (fpoint == fpoint1) {
  printf("\nThey are the same up to three decimal places." );
 }
 else{
  printf("\nThey aren't the same up to three decimal places." );
 }

return 0 ;
}
```

```
/*3. Write a C program to find the number of days in a month.*/
#include <stdio.h>
int main(){
int month,days,year;
printf("---PROGRAM TO FIND THE NUMBER OF DAYS IN A MONTH---\n\n");
printf("Enter a month numerically : ");
scanf("%d",&month);

 switch(month)
 {
  case  4:days=30;
   break;

  case  6:days=30;
   break;

  case  9:days=30;
   break;

  case 11:days=30;
                    break;

  case  1:days=31;
   break;

  case  3:days=31;
   break;

  case  5:days=31;
   break;

  case  7:days=31;
   break;

  case  8:days=31;
```

```
   break;

  case 10:days=31;
   break;

  case 12:days=31;
   break;

  case 2:
   printf("\nEnter a year ");
   printf("Because this month causes the leap year : ");
   scanf("%d",&year);
   if (year % 4000 == 0) {
         days=28;
   }
   else if((year % 400 == 0) || ((year % 4 == 0) && (year % 100 != 0))){
    days=29;
         }
   else{days=28;
   }
   break;

  default:days=0;
   break;
 }

   printf("\nThere are %d days in the month entered.\n",days);

return 0 ;

}




/* 4. Write a C program that takes a year from user and print whether that year is a leap year or not.*/
#include <stdio.h>
int main(){
 int year ;
 printf("---LEAP YEAR FINDER---\n\n");
 printf("Please Enter a Year : " );
 scanf("%d",&year );

 if (year % 4000 == 0) {
  printf("\n%d isn't leap year.",year);
 }
 else if (year % 400 == 0) {
  printf("\n%d is leap year.",year);
 }
 else if (year % 100 == 0) {
  printf("\n%d isn't leap year.",year);
 }
 else if (year % 4 == 0) {
  printf("\n%d is leap year.",year);
```

```
 }
 else{
  printf("\n%d isn't leap year.",year);
 }
 return 0 ;

}
```

/* 5. Write a C program that reads an positive integer and count the number of digits the number has.*/

```
#include <stdio.h>

int main(){
int number,digits=0;
printf("---NUMBER OF DIGITS COUNTER---\n\n");
printf("Please Enter An Positive Integer  : " );
scanf("%d",&number );

 while(number>0){

  number=number/10;
  digits++;
 }

printf("\nNumber Of Digits : %d",digits );
return 0 ;

}
```