**For loop : EG**

#include <stdio.h>int main() {    int day, week;    // Input a random day number between 1 and 365    printf("Enter a day number (1-365): ");    scanf("%d", &day);    // Ensure the day number is valid    if (day < 1 || day > 365) {        printf("Invalid day number. Please enter a number between 1 and 365.\n");        return 1;    }    // Loop through the possible weeks    for (int i = 1; i <= 53; i++) {        if (i == 53) {            // Handle the partial 53rd week for days beyond day 364            if (day > 364) {                week = 53;                break;            }        } else {            // Check if the day falls in the current week            if (day >= (i - 1) \* 7 + 1 && day <= i \* 7) {                week = i;                break;            }        }    }    // Use switch to print out the week    switch (week) {        case 1 ... 52:            printf("Day %d falls in Week %d.\n", day, week);            break;        case 53:            printf("Day %d falls in Week 53 (partial week).\n", day);            break;        default:            printf("Error calculating the week.\n");    }    return 0;}