**A2 - WAP to find which day of the year**

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Description :

Write a program to find what will the nth day in that particular year.

That is, if Sunday is first day of that particular year, Using this program you have to find what day will it be according to n value.

Logic will be like:

First you have check whether the n value is < 365

[(n + first\_day) - 1] % 7

Sample Input :

n= 15

first\_day = 2 //Monday

Sample Output :

15th day of the year is Tuesday

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#include<stdio.h>

int main()

{

int n,first\_day;

int day;

printf("Enter the value of 'n' : ");

scanf("%d",&n);

if(n >= 1 && n <= 365) // n should be positive n <=365

{

printf("Choose First Day: \n");

/\*printf("1. Sunday\n"); //menu prompt

printf("2. Monday\n");

printf("3. Tuesday\n");

printf("4. Wednesday\n");

printf("5. Thursday\n");

printf("6. Friday\n");

printf("7. Saturday\n");\*/

printf("Enter the option to set the first day : ");

scanf("%d",&first\_day);

if(first\_day > 0 && first\_day <= 7) //first\_day value should be between 1 to 7

{

day = ((n + first\_day) - 1) % 7;

switch(day)

{

case 0:

printf("The day is Saturday");

break;

case 1:

printf("The day is Sunday");

break;

case 2:

printf("The day is Monday");

break;

case 3:

printf("The day is Tuesday");

break;

case 4:

printf("The day is Wednesday");

break;

case 5:

printf("The day is Thursday");

break;

case 6:

printf("The day is Friday");

break;

default:

printf("Invalid Day");

}

}

else //false if entered first\_day is 0 or greater than 7

{

printf("Error: Invalid input, first day should be >0 and <=7");

}

}

else //false if entered n value is zero,less than 0 or greater than 365

{

printf("Error: Invalid Input, n value should be >0 and <=365");

}

return 0;

}