

// Program : Find the dates of vaccine...

```
#include<stdio.h>

#include<conio.h>

void main()

{

    int i,m,f=2,n=84,k,d,t=0,temp=0,D,r,x,Y,y;

    clrscr();
    printf("\n\t\t\t\t\t WELCOME \n\t\t\t\t\t FIND DATE FOR SECOND DOSE OF YOUR VACCINE.
");

    Lable1:

    printf("\n\n\tEnter Which is your first vaccine : ");
    printf("\n\t Press > 1 < If COVISHIELD");
    printf("\n\t Press > 2 < If COVAXINE \n\t>>> ");
    scanf("%d",&x);

    if(x>2)
    {
        printf("Invalid info plz enter info correctly...");

        goto Lable1;
    }
    else
    {

        printf("\n\tEnter the Date of First dose : ");
        scanf("%d",&D);

        printf("\tEnter the Month : ");
        scanf("%d",&m);

        printf("\tEnter the Year : ");
        scanf("%d",&Y);

        if(x==2)
        {
            n=30;
        }

        if(D>31||m>12)
        {

            printf("\n\n\t Invalid format of DATE.\n\n\t Retry . . .");
```



```

    }
    else if(m==2 && D>28)
    {
        printf("\n\n\t Invalid format of DATE.\n\n\t Retry . . .");
    }

else

{

    do

    {

i=m;

if(i<=7)

{

    if(i==2)
    {
        if(Y%4==0)
        {
            d=29;
        }
        else
        {
            d=28;
        }
    }
    else if(i%2==0)
    {
        d=30;
    }
    else
    {
        d=31;
    }
    }
    else
    {
if(i%2==0)
{
    d=31;
}
else
{
    d=30;
}
}
}

if(temp==0)
{
    r=d-D;
    temp=1;
}

```

```

else
{
    r=d;
}
n=n-r;
//printf("n = %d",n);

    if(m==12)
    {
        m=1;
        Y++;
    }
else
{
    m++;
}

} while(n>31);

```

```

for(y=2020;y<Y;y++)

```

```

{

    for(i=1;i<13;i++)
    {

        if(i<=7)

        {

            if(i==2)
            {
                if(y%4==0)
                {
                    d=29;
                }
                else
                {
                    d=28;
                }
            }
        }
        else if(i%2==0)
        {
            d=30;
        }
        else
        {
            d=31;
        }
    }
    else
    {
        if(i%2==0)
        {
            d=31;
        }
    }
}

```

```

else
{
    d=30;
}
}

f=(f+d)%7;

}
// printf("\t%d    %d    ",y,f);

}

}

for(i=1;i<m;i++)
{

    if(i<=7)
    {

        if(i==2)
        {
            if(Y%4==0)
            {
                d=29;
            }
            else
            {
                d=28;
            }
        }
    }
    else if(i%2==0)
    {
        d=30;
    }
    else
    {
        d=31;
    }
}
    else
    {
        if(i%2==0)
        {
            d=31;
        }
        else
        {
            d=30;
        }
    }

    f=(f+d)%7;

```

```

// printf("\n\n\t%d    %d",i,f);

}

r=(f+n)%7;

// printf("\nn=%d,m=%d\n",n,m);

if(m==2&& n>=28)
{
    n=n-28;
    m=m+1;
}

printf("\n\t\t The Dates for Second dose are :-\n\n\t\t ");

Lable2:

if(t==0)
{
    switch(r)
    {

        case 1: printf("MONDAY");
                break;
        case 2: printf("TUESDAY");
                break;
        case 3: printf("WEDNESDAY");
                break;
        case 4: printf("THURSDAY");
                break;
        case 5: printf("FRIDAY");
                break;
        case 6: printf("SATURDAY");
                break;
        case 0: printf("SUNDAY");
                break;

        default:printf("\nInvalid input");
                break;
    }
}

if(t==1)
{
    printf(" to ");
}

printf(" %d",n);

if(n<20&&n>10)
{
    printf("th ");
}

```

```

    }
    else
    {
        k=n%10;

        switch(k)
        {
            case 1: printf("st ");
            break;
            case 2: printf("nd ");
            break;
            case 3: printf("rd ");
            break;
            default :printf("th ");
            break;
        }
    }

    switch(m)
    {
        case 1: printf(" JANUARY");
        break;
        case 2: printf(" FEBRUARY");
        break;
        case 3: printf(" MARCH");
        break;
        case 4: printf(" APRIL");
        break;
        case 5: printf(" MAY");
        break;
        case 6: printf(" JUNE");
        break;
        case 7: printf(" JULY");
        break;
        case 8: printf(" AUGUST");
        break;
        case 9: printf(" SEPTMBER");
        break;
        case 10: printf(" OCTOBER");
        break;
        case 11: printf(" NOVEMBER");
        break;
        case 12: printf(" DECEMBER");
        break;

        default:printf("\nInvalid input");
        break;

    }

    //printf("\nn=%d,m=%d\n",n,m);
    if(t==0)
    {
        t=1;

        if(m < 8)
        {

```

```

if(m%2!=0 )
{
    //printf("%d",m);
    if(m==2&& n>=28)
    {

        n=n-28;

    }

    else
    {
        n=n-1;
    }
}
else if(m==2)
{
    n=n+2;
}

}
else
{
    if(m%2==0)
    {
        n=n-1;
    }
}

if(m>12)
{
    m=1;
    Y=Y+1;
}

else if(n<3&&m==1)
{

    m=m+2;
}
else
{

    m=m+1;

}

if(n==0)
{
    //if(m)
    n=31;
    m=m-1;
}

//printf("\nn=%d\n",n);
goto Lable2;

```

```

    }
    printf(" %d",Y);

    if(t==0)
    {

        switch(r)
        {

            case 1: printf("MONDAY");
                    break;
            case 2: printf("TUESDAY");
                    break;
            case 3: printf("WEDNESDAY");
                    break;
            case 4: printf("THURSDAY");
                    break;
            case 5: printf("FRIDAY");
                    break;
            case 6: printf("SATURDAY");
                    break;
            case 0: printf("SUNDAY");
                    break;

            default:printf("\Invalide input");
                    break;

        }
    }
    printf(".");

} //else

getch();

} //main

```