

# Backend assignment

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# Software Engineering Assignment

## MODULE : 3.1 (C Language Fundamental)

### 1. Display This Information Using printf

- Your name
- Your birth date
- Your age
- Your address

**Ans.**

```
#include<stdio.h>
int main()

{

printf("Name: Vibhavri Shrivastava");
printf("\n");
printf("DOB : 20/4/1999");
printf("\n");
printf("Age : 23");
printf("\n");
printf("Address : B/605, Shree Prayogsha Residency ,Nr. SP ring road, Hathijan
Circle,Ahmedabad-382445");

return 0;

}
```

## Output ↓

```
C:\Users\Admin\Desktop\Vibhagithub\C\module3.exe
Name: Vibhavri Shrivastava
DOB : 20/4/1999
Age : 23
Address : B/605, Shree Prayasha Recidency,Nr.SP ring road,Hathijan Circle,Ahmedabad-382445
-----
Process exited after 0.08358 seconds with return value 0
Press any key to continue . . .
```

Activate Windows  
Go to Settings to activate Windows.

Type here to search

9:30 PM  
11/6/2022

**2. Write a program to make simple calculator (to make addition, Subtraction, multiplication, division and modulo)**

**Ans :**

```
#include<stdio.h>
int main ()
{

    int a=12,b=30;

    printf("Addition");
    printf("\n");
    printf("%i", a+b);

    printf("\n");

    printf("Substraction");
    printf("\n");
    printf("%i", b-a);

    printf("\n");

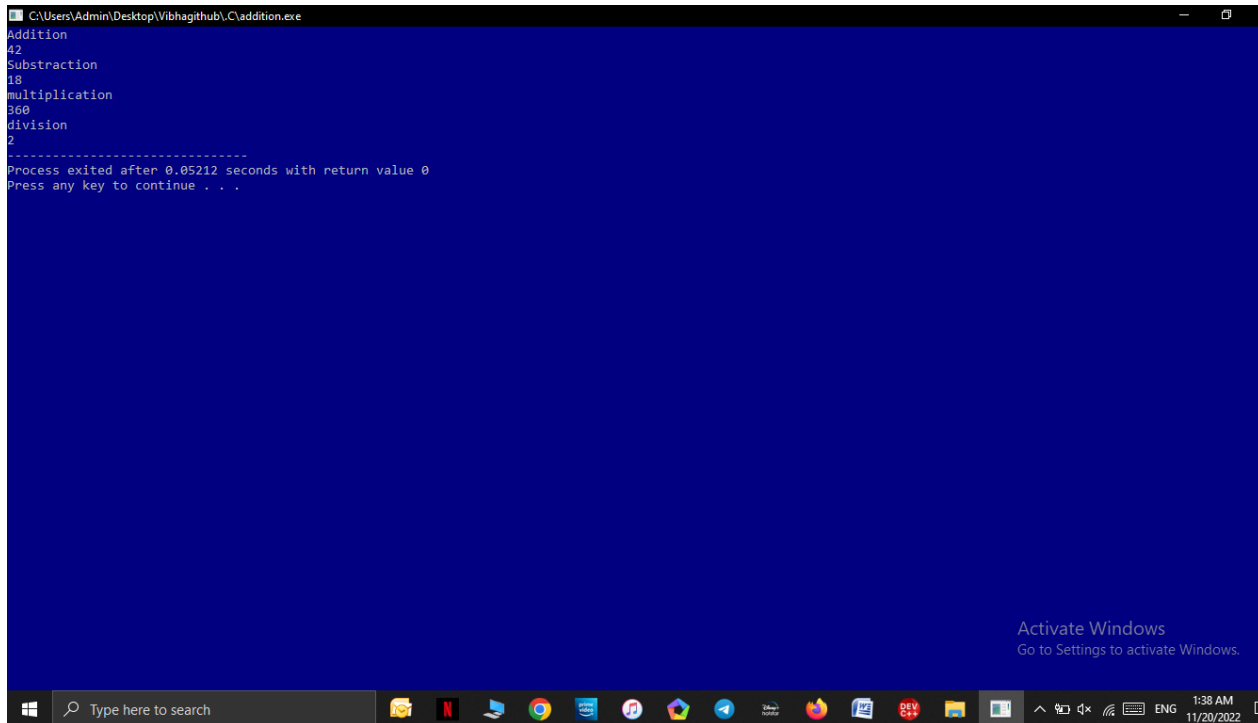
    printf("multiplication");
    printf("\n");
    printf("%i", b*a);

    printf("\n");

    printf("division");
    printf("\n");
    printf("%i", b/a);

    return 0;
}
```

## Output ↓



```
C:\Users\Admin\Desktop\Vibhagithub\C\addition.exe
Addition
42
Subtraction
18
multiplication
360
division
2
-----
Process exited after 0.05212 seconds with return value 0
Press any key to continue . . .
```

### 3.WAP to find area of circle , rectangle and triangle.

```
#include<stdio.h>
int main()

{

    float p = 3.14;

    float radius,area,height,width,base;
    printf("Please Enter Radius ::~>");
    scanf("%f",&radius);
    area = p * radius * radius;
    printf("Area of Cricle is ::~>%f",area);

    printf("\n\nPlease Enter height ::~>");
    scanf("%f",&height);
    printf("Please Enter width::~~>");
    scanf("%f",&width);
```

```

area = height * width;
printf("Area of rectangle is ::~>%f",area);

        printf("\n\nPlease Enter height::~~>");
scanf("%f",&height);
printf("Please Enter base ::~>");
scanf("%f",&base);
area = (height * base)/2;
printf("Area of traingle is ::~>%f",area);

return 0;
}

```

```

C:\Users\Admin\Desktop\Wibhagithub\C\Q3.exe
Area of circle
Please Enter Radius ::~>300
Area of Cricle is ::~>282600.031250
Area of rectangle
Please Enter height ::~>20
Please Enter width::~~>30
Area of rectangle is ::~>600.000000Area of Tringle
Please Enter height::~~>10
Please Enter base ::~>30
Area of traingle is ::~>150.000000
-----
Process exited after 8.815 seconds with return value 0
Press any key to continue . . .

```

#### 4. WAP to find simple interest

```

#include<stdio.h>
int main()
{
    int p,r,t,intrest;
    printf("Please Enter Principal::~> ");
    scanf("%d",&p);

```

```

printf("Please Enter Rate::> ");
scanf("%d",&r);
printf("Please Enter time::> ");
scanf("%d",&t);
intrest = p * r * t / 100;
printf("Intrest is::> %d",intrest);
return 0;
}

```

```

C:\Users\Admin\Desktop\Vibhagithub\Q4.exe
Please Enter Principal::> 3000
Please Enter Rate::> 10
Please Enter time::> 1
Intrest is::> 300
-----
Process exited after 6.293 seconds with return value 0
Press any key to continue . . .

```

## 5.WAP to convert years into days and days into years.

```

#include<stdio.h>
int main()

{
    int day,year,weeks;

    printf("Please Enter Days::> ");
    scanf("%i",&day);

    year = day/365;
    weeks = (day % 365)/7;
    day = day - ((year*365) + (weeks*7));

```

```
day = day - ((weeks*7) +(year*365));
```

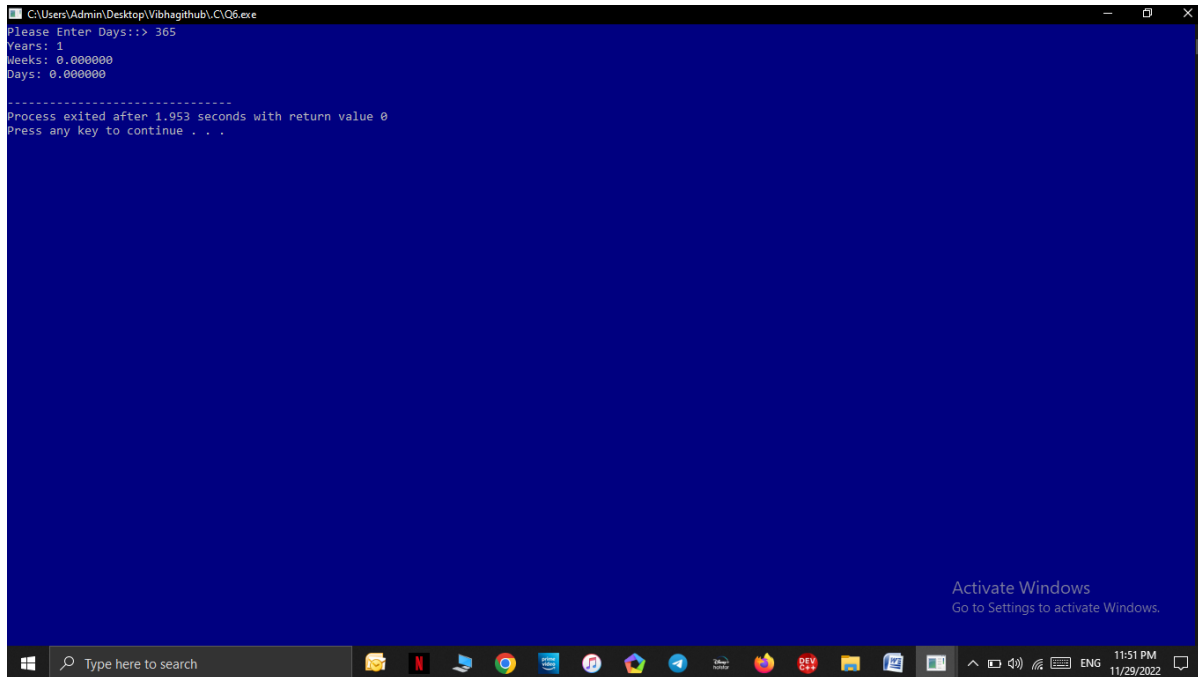
```
printf("Years: %i\n", year);
```

```
printf("Weeks: %f\n", weeks);
```

```
printf("Days: %f\n", day);
```

```
return 0;
```

```
}
```



```
C:\Users\Admin\Desktop\Vibhagithub\C\Q6.exe
Please Enter Days:> 365
Years: 1
Weeks: 0.000000
Days: 0.000000
-----
Process exited after 1.953 seconds with return value 0
Press any key to continue . . .
```

## 6. WAP to check if the given year is a leap year or not.

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int year;
```

```
    printf("ENTER YEAR:\n");
```

```
    scanf("%i",&year);
```

```
    if(year%4==0 && (year%100!=0 || year%400==0))
```

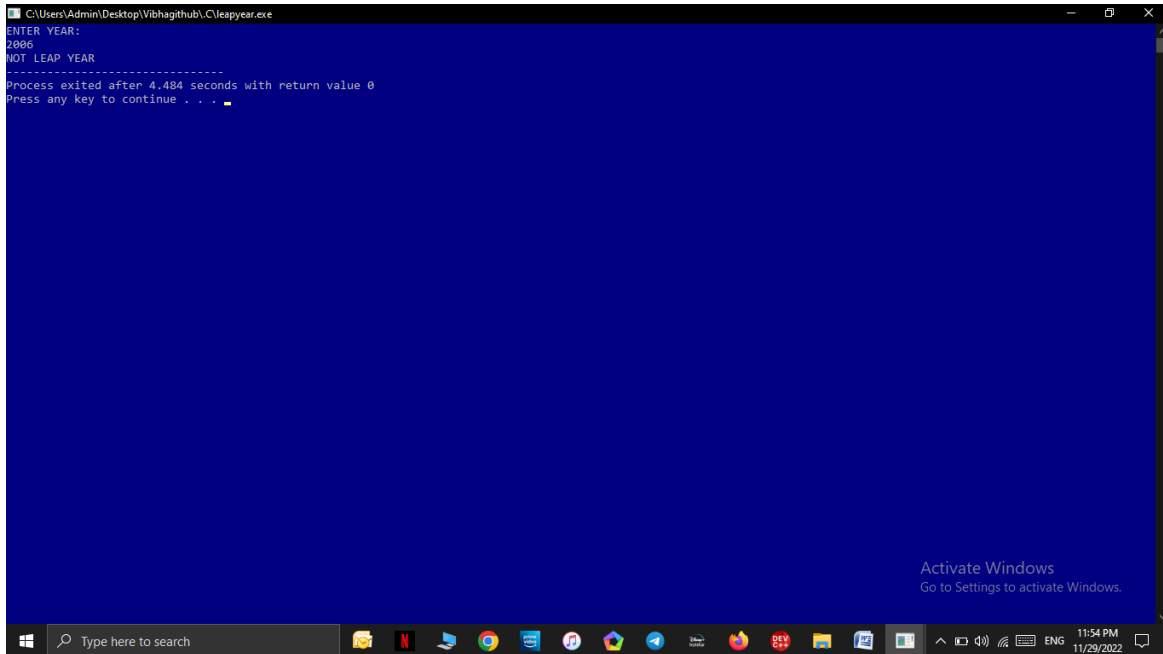
```
    {
```

```
        printf("LEAP YEAR");
```

```
    }
```



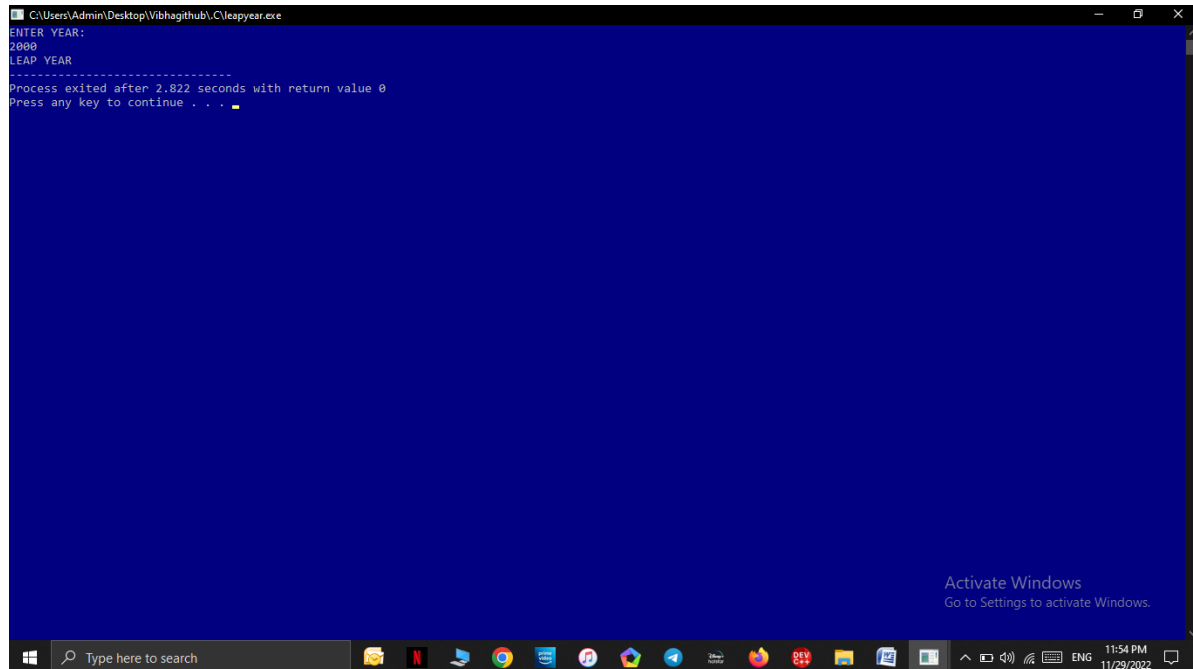
```
else
{
printf("NOT LEAP YEAR");
}
return 0;
}
```



A screenshot of a Windows command prompt window titled "C:\Users\Admin\Desktop\Vibhagithub\C\leapyear.exe". The window has a blue background. The text displayed is as follows:

```
ENTER_YEAR:
2006
NOT LEAP YEAR
-----
Process exited after 4.484 seconds with return value 0
Press any key to continue . . .
```

The Windows taskbar is visible at the bottom, showing the search bar and various application icons. An "Activate Windows" watermark is present in the bottom right corner of the window.



A screenshot of a Windows command prompt window titled "C:\Users\Admin\Desktop\Vibhagithub\C\leapyear.exe". The window has a blue background. The text displayed is as follows:

```
ENTER_YEAR:
2000
LEAP YEAR
-----
Process exited after 2.822 seconds with return value 0
Press any key to continue . . .
```

The Windows taskbar is visible at the bottom, showing the search bar and various application icons. An "Activate Windows" watermark is present in the bottom right corner of the window.