

# Assignment 3.1

**NAME:AKSH**

## 1. Display This Information using printf

1. Your Name
2. Your Birth date
3. Your Age
4. Your Address

**ANS:**

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

    printf("Your Name\t Patel Aksh");
    printf("\nBirth date\t 08/06/2002");
    printf("\nAge \t\t 20");
    printf("\nAddress \t idar,sapavada");

}
```

**Output:**

|            |               |
|------------|---------------|
| Your Name  | Patel Aksh    |
| Birth date | 08/06/2002    |
| Age        | 20            |
| Address    | idar,sapavada |

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

**Ans:** #include<stdio.h>

int main()

{

float a,b,ans=0;

int k,j;

printf("Enter number of A:\n");

scanf("%f",&a);

printf("Enter number of B:\n");

scanf("%f",&b);

ans=a+b;

printf("\naddition=%.2f\n",ans);

ans=a-b;

printf("\nsubtraction=%.2f\n",ans);

ans=a\*b;

printf("\nmultiplication=%.2f\n",ans);

ans=a/b;

```
printf("\ndivision=%.2f\n",ans);  
printf("modulo Enter number of K and j:");  
scanf("%d%d",&k,&j);  
printf("\nmodulo=%.2d\n",k%j);  
return 0;  
  
}
```

### **Output:**

Enter number of A:

24

Enter number of B:

45

addition=69.00

subtraction=-21.00

multiplication=1080.00

division=0.53

modulo Enter number of K and j:5

8

modulo=05

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

**Ans:**

```
#include<stdio.h>
main()
{
    float area,bas,hait,traengel,radius,circle,rectangle;

    printf("Enter the Radius of Circle :");
    scanf("%f",&radius);
    area=3.14159*radius*radius;
    printf("circle=%f",area);

    printf("\n enter base and hait for traengel :");
    scanf("%f%f",&bas,&hait);
    area=0.5*hait*bas;
    printf("\n traengel=%f",area);

    printf("\nenter base and hait for rectangle :");
    scanf("%f%f",&bas,&hait);
    area=bas*hait;
    printf("\nrectangle=%f",area);
}
```

**Output:**

Enter the Radius of Circle :12

circle=452.388947

enter base and hait for traengel :12

12

```
traengel=72.000000  
enter base and hait for rectangle :12  
15
```

```
rectangle=180.000000
```

#### **4. WAP to find simple interest**

**Ans:**

```
#include<stdio.h>  
main()  
{  
    float p,t,r,total;  
  
    printf("\nenter principel amount :");  
    scanf("%f",&p);  
  
    printf("\nenter time in year :");  
    scanf("%f",&t);  
  
    printf("\nenter rate percent:");  
    scanf("%f",&r);
```

```
total=p*r*t/100;

printf("\ntotal interest=%0.f",total);

}
```

**Output:**

```
enter principal amount :1000
enter time in year :1
enter rate percent:10
total interest=100
```

**5. WAP to check if the given year is a leap year or not.**

**Ans:**

```
#include<stdio.h>

main()
{
    int year;

    printf("Enter year :");
    scanf("%d",&year);
```

```
        if(year%4==0)
        {
            printf("this is leap year");
        }
    else
    {
        printf("this is not a leap year");
    }
}
```

**Output:**

Enter year :4

this is leap year

**6. WAP to convert years into days and days into years**

**Ans:**

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

```
main()
```

```
{
```

```
    float day,month,year;
```

```
    printf("enter year :");
```

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

day=(year*365)/1;
printf("\n result in day =%f",day);

year=(year*1)/365;
printf("\nresult in year =%0.2f",year);
}
```

**Output:**

```
enter year :1
result in day =365.000000
result in year =0.00
```