

# LAB-1 (BATCH G-2)

## THEORY

In **C** programming,

*WE HAVE USED **stdio.h*** header file in our following program

This file is imported by using keyword “**#include**” and enclosing header file in angular brackets <>

**scanf()** is a function used to take input from the user

**printf()** is a function used to print the output on the screen

We have also used data types like **int** , **float** to declare our variables according to our user's need !

**Using format specifier for printing the corresponding data type :-**

**%d-** for integers

**%f-** for floats

**%c-** for characters

**%s-** for strings

**%lf-** for double

**%x-** for hexa-decimal variable

**return 0** signifies the completion of the program !( WE HAVE USED **INT** main function therefore it is necessary for us to return some integer value )

## **WAP TO PRINT THE SUM AND AVERAGE OF TWO NUMBERS :-**

```
#include <stdio.h>

int main()
{ int a,b,sum;
  float avg;
  printf("ENTER TWO NUMBERS = ");
  scanf("%d %d",&a,&b);
  sum=a+b;
  avg=sum/2.0;
  printf("\nSUMMATION OF TWO NUMBERS =
        %d",sum);
  printf("\nAVERAGE OF TWO NUMBERS =
        %f",avg);

  return 0;
}
```

input

ENTER TWO NUMBERS = 5

4

SUMMATION OF TWO NUMBERS = 9

AVERAGE OF TWO NUMBERS = 4.500000

...Program finished with exit code 0

Press ENTER to exit console.

• Rectangular Snip

## WAP TO PRINT THE SIMPLE INTEREST :-

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

```
int main()
```

```
{ int t;
```

```
float prin,rate,si=0.0f;
```

```
printf("ENTER THE TIME IN YEARS = ");
```

```
scanf("%d",&t);
```

```
printf("\nENTER THE PRINCIPAL AMOUNT = ");
```

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

```
printf("\nENTER THE RATE OF INTEREST = ");
```

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

```
si=(prin*rate*t)/100;
```

```
printf("\nTHE SIMPLE INTEREST COMES OUT TO  
BE = %f",si);
```

```
return 0;
```

```
}
```



input

ENTER THE TIME IN YEARS = 5

ENTER THE PRINCIPAL AMOUNT = 5

ENTER THE RATE OF INTEREST = 5

THE SIMPLE INTEREST COMES OUT TO BE = 1.250000

...Program finished with exit code 0

Press ENTER to exit console.