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

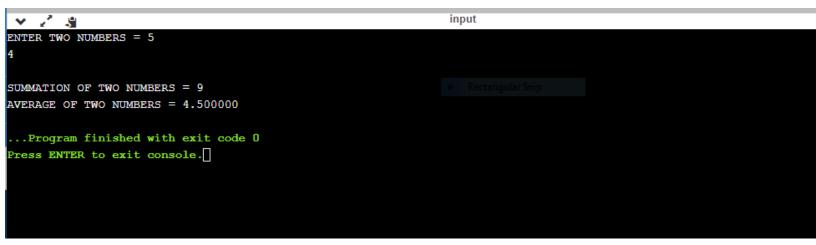
%x- for hexa-decimal variable

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;
```



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;
```

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.