① Write a program in c to display your name and address on Computer Screen.

```
# include < studio.h >
  void main(1) {
Print (" \n Dr Sheelesh kumar Sharma "); // it displays the
String inside Quation on computer Screen
  Print ("\n IMS Ghaziabad"); // it displays the String
Inside Queatation on computer Screen. }
```

Output

Dr sheelesh kumar Sharma
Ims Ghaziabad

② Write a program in c to add two integer numbers

```
# include < studio.h >
 void Main (1) {
in n1, n2, sum; // it dedares three vatiables n1, n2
and Sum as integer type
  Print (" Enter two indeger numbers:");
 Scanf ("%d %d", & n1, n2); // it reads two numbers that
Are stored in variables n1, n2 respectively.
  Sum = n1 + n2; // calculating Sum. }
```

Output:

Enter two integer numbers: 10 20
Sum = 30

3) Write a program in C to compute the value of x in this expression $x = 20 / (8-4) * 8 - 2$.

```
# include <studio.h>
 void main() {
int x:
   x = 20 / (8-4) * 8 - 2;
printf ("x = %d", x);// it displays the value of x }
```

Output:

x = 38.

4) Write a program in C to compute a quotient and reminder.

```
# include <studio.h>
void main() {
int dividend, divisor, Quotient, reminder; // it declares variables
as integer type.
 printf("Enter dividend:");
Scanf ("%d", &dividend); // it reads the value of dividend
 Printf ("Enter divisor:");
Scanf ("%d", &divisor); // It reads the value of divisor
Quotident = divident / divisor; // it computes quottent
Reminder = dividend % divisor; // it computes remainder
print ("Quotient = %d \n", quotient); // it displays the value
                                        of Quotient.
Printf ("Reminder = %d ; reminder); // it displays the value of reminder}
```

Output:

Enter dividend : 20
Enter divisor : 3
Quotient = 6
Reminder = 2

6. Write a program in C to swap the value of two integer numbers

```
# include <studio.h>
void main (1) {
int n1, n2, temp;
 n1 = 10;
 n2 = 20;
temp = n1; // value of n1 is assigned to temp
 n1 = n2; // value of n2 is assigned to n1
n2 = temp; // value of temp (intial value of n1) is assigned to n2
print("\n After Swapping, n1 number = %.d", n1);
printf("\n After Swapping n2 number = %.d", n2); }
```

Output:

After Swapping, n1 Nmber = 20
After Swapping n2 Number = 10

In the above program, the temp variable is assgned the value of the n1 variable then, the value of the n1 variable in assigned to the n2 variable. Finally, the temp (which holds the intial value of n1) is assigned to n2 this completes the Swapping process.

```
# include<studio.h>
void main(1) {
int n1, n2
  n1 = 40;
  n2 = 10;
// swapping
n1 = n1 - n2; // n1 = 40 - 10 so n1 = 30
n2 = n1 + n2; // n2 = 30 + 10 so n2 = 40
n1 = n2 - n1; // n1 = 40 - 30 so n1 = 10
```

```
printf("\n After Swapping ,n1 Number = %d", n1);
printf("\n After Swapping ,n2 Number = %d", n2);
```

Output:

```
After Swapping ,n1 Number = 10
After Swapping ,n2 Number = 40
```

6) Write a program to find the largest of three numbers

```
#include <Studio.h>
void main() {
int n1, n2, n3, largest;
printf("Enter three different numbers:");
Scanf("%d %d %d", &n1, &n2, &n3);
 if (n1 > n2)
  largest = n1;
else
   largest = n2;
if (n3 > = largest)
    largest = n3;
printf("Largest number is %d", largest); }
```

Output:

```
Enter three numbers : 30 20 40
Largest number is 40
```

7) Write a program to check whether a integer number is even or odd.

```
#include <stdio.h>
void main() {
  int num;
printf("Enter a number:");
Scanf("%d", &num);
 if (num%.2) ==0){
  printf("Even number");
  else
    printf("odd number"); }
```

Output 1

Enter a number : 12

Even number

Output 2

Enter a number:11

Odd number

8) Write a program to display table of any integer number.

```
#include <studio.h>
void main() {
int n, i;
printf("Enter an integer:");
Scanf("%d", &n);
for (i = 1; i<=10; ++i) {
printf("%d * %d = %d \n", n, i, n * i); }
```

Output:

Enter an integer : 9

9 x 1 = 9	9 x 6 = 54
9 x 2 = 18	9 x 7 = 63
9 x 3 = 27	9 x 8 = 72
9 x 4 = 36	9 x 9 = 81
9 x 5 = 45	9 x 10 90

9) Write a program to display first ten terms of the Fibonacci sequence.

The Fibonacci Sequence: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34

The Fibonaci Sequence is a sequance are 0 followed by 1.

```
# include <studio.h>
void main (){
int i, n, t1 = 0, t2 = 1, next term;
printf ("Enter the number of terms");
Scanf ("%d, &n)
 printf (" Fibonacci series: ") ;
for (i = 1; i <= n; ++i) {
  printf ("%d, ", t1);
  next term = t1 + t2;
   t1 = t2;
  t2 = next term; }
```

Output

Enter the number of terms: 10

Fibbonacci series 0, 1, 1, 2, 3, 5, 8, 13, 21, 34.

10) Write a program to calculate the sum of digits of an Integer number?

```
# Include <studio.h>
void main () {
int n, sum = 0, digit
Printf ("Enter an integer: ");
Scanf ("%d", &n);
while (n1 = 0) {
 digit = n % 10;
   Sum = Sum + digit
 n = n / 10; }
```

Output

Enter an integer : 142
Sum of the digits = 7

This program takes an integar input from user 142. the while loop is used untill n != 0 is flase. in each iteration of the loop, each digit (using digit = n % 10) when n is divided By 10 is calculated and the value of n is reduced By 10 times (n = n / 10). inside the loop, The sum of digit of an Integer number is computed using Sum = Sum + digit.

11) Write a program to reserve an integer number:

```
# include <studio.h>
 void main () {
int n, rev = 0, digit
 printf (" Enter an integer:");
 Scanf ("%d", &n);
 while (n != 0) {
 digit = n % 10;
  rev = rev * 10 + digit;
  n = n / 10;  }
 Printf (" Reserved number = %d ", rev); }
```

Output

Enter an integer : 345
Reversed number = 543

This program takes an integer input form the user 345 The while loop is used untill n != 0 is false in each iteration of the loop, the digit (digit = n % 10), when is divided By 10 is calculated and the value of n is reduced by 10 times (n = n / 10), inside the loop, the reserved number is computed using : rev = rev x 10 + digit.

12) Write a program to calculate factors of a positive integer:

```
#include <stdio.h>
void main () {
int num , i;
Printf ("Enter a positive integer :");
Scanf ("%d", &num);
printf ("Factors of %d are :", num);
for (i=1; i<=num; ++i) {
  if (num%i == 0){
  printf ("%d", i);
```

Output

Enter a positive integer : 10

Factors of 10 are : 1 2 5 10