① write a Program in c to display your name and address on Computer Screen.

```
#include <Stdio.h>
void main(){
 Printf("\n Dr Sheelesh Kumar Sharma"); // it displays the String inside quotation on computer Screen
 Printf("\n IMS Ghaziabad"); // it displays the String inside quotation on Computer Screen
 }
```

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② write a Program in c to add two integer numbers

```
#include <stdio.h>
 void main(){
   int n1, n2, sum; // it declares three vaniables n1, n2 and sum as integer type
Printf("Enter two integer numbers:");
Scanf("%d %d", &n1, &n2); // it reads two numbers that are stored in variables n1 and n2 respectively
 Sum = n1 + n2; // Calculating Sum
 Printf("Sum= %d", Sum); // it displays the value of Sum
 }
 Printf("Sum = %d", Sum); // It displays the value of Sum
```

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

x = 38

④ Write a Program in C to Compute a quotient and remainder.

```
#include<stdio.h>
 void main(){
int divisor, divisor, quotient, remainder; // it
declares variable 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
quotient = dividend / divisor; // it computes quotient
remainder = dividend % divisor; // it computes
 remainder
Printf("Quotient = %d\n", quotient); // it displays
the value of quotient
```

Printf ("~~Quotient~~ Remainder = %d", remainder); // it displays the value of remainder
}

Enter dividend; 20

Enter divisor: 3

Quotient = 6

Remainder = 2

⑤ Write a Program in c to Swap the value of two integer numbers.

```
#include <stdio.h>
void main() {
   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 (initial value of n1)
  is assigned to n2
Printf("\n After Swapping, n1 Number = %d", n1);
Printf("\n After Swapping, n2 Number = %d", n2);
}
```

After Swapping n1 Number = 20

After Swapping n2 Number = 10

In the above Program, the temp variable is assigned the value of the n1 variable. Then, the value of the n1 variable is assigned to the n2 variable.

Finally, the temp (which holds the initial value

of n1) is assigned to n2. This completes the swapping process.

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

After Swapping, n1 Number = 10

After Swapping, n2 Number = 40

⑥ Write a Program to find the Largest of three numbers

```
#include <stdio.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);
}
```

Enter three number : 30 20 40

Largest number is 40

⑦ Write a Program to check whether a integer number is Seven or odd.

```
#include <stdio.h>
 void main(){
 int num;
Printf ("Enter a number");
   else
      Printf (" odd number");
    }
```

Enter a number : 12

Even number

Enter a number : 11

odd number

⑧ Write a Program to disply table of any integer number.

```
 # include <stdio.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);
  }
  }
```

Enter an integer: 9

9 * 1 = 9

9 * 2 = 18

9 * 3 = 27

9 * 4 = 36

9 * 5 = 45

9 * 6 = 54

9 * 7 = 63

9 * 8 = 72

9 * 9 = 81

9 * 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 Fibonacci sequence is a sequence where the next term is the sum of the Previous two terms.

The first two terms of the Fibonacci sequence are 0 followed by 1.

```
#include <stdio.h>
void main() {
  int i, n, t1 = 0 t2 = 1, nextTerm;
Printf("Enter the number of terms :");
  Scanf("%d", &n);
Printf("Fibonacci Series:");
  For(i = 1; i <= n; ++i) {
  Printf("%d, ", t1);
  nextTerm = t1 + t2;
```

```
    t1 = t2;
    t2 = nextTerm;
  }
}
```

Enter the number of terms : 10
Fibonacci 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 <stdio.h>
  void main () {
  int n, sum = 0, digit;
Printf ("Enter an integer :");
  Scanf ("%d", &n);
  while (n != 0) {
   digit = n % 10;
   sum = sum + digit;
    n = n / 10;
  }
 Printf ("Sum of the digits = %d", sum);
  }
```

Enter an integer : 142
Sum of the digits = 7

This Program takes an integer input from the user 142. The while loop is used until n != 0 is false. 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

(12) write a Program to

digits of an integer number is computed using

sum = sum + digit

(11) write a Program to reverse an integer number.

```
# include <stdio.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 ("Reversed number = %d", rev);
   }
```

Enter an integer : 345

Reversed number = 543

This Program takes an integer input from the user 345. The while loop is used until n!=0 is false. In each iteration of the loop, the digit (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 reversed number is computed using : rev = rev * 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);
  }
  }
}
```

Enter a positive integer: 10
Factors of 10 are: 1 2 5 10

(13) Elaborate the process and elements of communication in detail through suitable examples

- Sender: He is the person who sends his views to another person . . .
- Message: The idea, feeling, suggestion, guidelines, orders or any content which is intended to be communicated is message . . .
- Encoding: . . .
- Media: . . . .
- Decoding: . . .
- Receiver: . . .
- Feedback: . . .
- Noise: . . .