

Assignment - (1)

Q1. write a program in c to display your name and address on computer screen.

Ans.

```
#include <stdio.h>
#include <conio.h>
main()
{
    printf("In my name July")
    printf("In Ims Niriga Mihallo")
    getch(1);
}
```

Q2. write a program in c to add two integer numbers.

Ans. Solutions

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

```

```

inta = 10, b = 20, int Sum = 0
Sum = a+b,
Print ("Sum of '1' d", Sum)

```

Q3. Write a program in C to compute the value of X in this expression
 $X = 20 / (8 - 4) * 8 - 2$

Ans- Solution

```

#include <stdio.h>
void main()

```

```

{
    in
    X = 20 / (8 - 4) * 8 - 2,
    Print ("X = %d", X); // it
    displays the value of X
    output - X = 38.
}

```

4. Write a program in C to compute a quotient and remainder.

Ans- Solution

```

#include <stdio.h>

```

Date / /

```
void main () {
    int dividend, divisor, remainder;
    // it has declared variables as
    // integer type.
```

```
    printf ("Enter dividend. ")
    scanf ("%d", &divisor);
```

```
    quotient = dividend / divisor;
    remainder = dividend % divisor;
```

```
    printf ("quotient = %d\n", quotient);
```

```
    printf ("Remainder = %d", &
           remainder);
```

```
}
```

Output

Enter dividend = 30

Enter divisor = 3

Quotient = 6

Remainder = 2

Q5. write a program in c to swap the value of two integer numbers.

Ans. Solutions

Swap numbers using temp variable

```
#include <stdio.h>
void main () {
    int n1, n2, temp;

    n1 = 10;
    n2 = 20;
    temp = n1;
    n1 = n2;
    n2 = temp;
```

printf ("In after Swapping, n1 number = %d n2 number = %d\n", n1, n2);

output

After Swapping n1 number = 20
after Swapping n2 number = 10

Swap number without using temporary numbers.

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

```
void main () {
```

```
int n1, n2;
```

```
n1 = 40;
```

```
n2 = 10;
```

```
" Swapping
```

```
n1 = n1 + n2;
```

```
n2 = n1 - n2;
```

```
n1 = n1 - n2;
```

```
printf ("In after swapping, n.  
numbers = %d", n1);
```

```
printf ("In after swapping, n.  
numbers = %d", n2);
```

Q.6. Write a program to find the largest of three numbers.

Ans. Solution

```
#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);
```

}

Q7 write a program to check whether a integer number is even or odd.

Ans. Solution

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

8. write a program to display table of any ~~int~~ integer number.

Ans. Solution

```
#include <stdio.h>
void main () {
    int n, i;
    }
    Printf ("%d", &n);
```

```
for (i = 1, i <= 10, ++i) {
    printf ("%d * %d = %d \n",
            n, i, n * i);
}
```

Q.9. Write a program to display first ten terms of the fibonacci sequence.

Ans. Solution

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, next term;
printf ("Enter the number of term:")
scanf ("%d", &n);
printf ("Fibonacci Series. ").
for (i = 1; <= n; ++i) {
    printf ("%d ", t1);
    next term = t1 + t2;
    t1 = t2;
    t2 = next term;
}
}

```

Q10. write a program to calculate the sum of digits of an integer number.

Ans.

Solution

```

#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 digits = %d", sum);
}

```

```

while (n != 0) {
    digit = n % 10;
    Sum = Sum * 10 + digit;
    n = n / 10;
}
printf ("Sum of the digits
= %d", Sum);

```

Q11. Write a program to reverse an integer number.

Ans

Solution

```

#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);

```

Q12. Write a program to calculate factors of a positive integer.

Ans.

Solution

```
#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);
        }
    }
}
```