

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 is Rubina")
    printf("I'm from Debal Nurg Mohalla")
    getch();
}
```

Q2 Write a program in C to add two integer numbers.

Ans Soln Solutions

```
#include <stdio.h>
#include <conio.h>
main()
{
    int a = 10; b = 20; int sum = 0;
    sum = a + b;
    printf("Sum of '%d' + '%d' = %d", a, b, sum);
}
```

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Q13 Write a program in C to compute the value of x in the expression $x = 20 / (8 - 44) * 8 - 2$

Ans Solutions
#include <stdio.h>
void main()
{
 in
 $x = 20 / (8 - 44) * 8 - 2$
 Print C "x = %d", u); // it displays
 the value of u
 out put - $x = 38$.

Q14 Write a program in C to compute a quotient and remainder.

Ans= Solutions.
#include <stdio.h>
void main()
{
 int dividend, divisor, remainder;
 // declared variables as integer type
 printf("Enter dividend: ");
 scanf("%d", &divisor);

$quotient = dividend / divisor;$
 $sumciuder = dividend \% divisor;$
 $printf("Quotient = \%d / \%d", quotient);$
 $printf("Remainder = \%d", sumciuder);$

out put

Enter dividend = 30
 Enter divisor = 3
 Quotient = 6
 Remainder = 2

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

Ans- Solutions

Swap numbers using temporary variable

```

#include <stdio.h>
void main ()
{
    int n1, n2, temp;
    n1 = 10;
    n2 = 20;
    temp = n1;
    
```

Date ___/___/___

```

n1 = n2
n2 = temp;
printf ("In after swapping, n1
number = %d", n1);
Print ("In after swapping, n2
number = %d", n2);

```

out put

After swapping, n1 number = 2
 After swapping, n2 number =
 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 = n2 - n1;
    printf ("In after swapping, n1 nu
    = %d", n1);

    printf ("In after swapping, n2 nu
    number = %d", n2);
}

```

Date ___/___/___

Q6 Write a program to find the largest of three numbers.

Ans

Solution

```
#include <stdio.h>
void main()
{
    int m1, m2, m3, largest;
    printf("Enter three different numbers:");
    scanf("%d %d", &m1, &m2, &m3);
    if (m1 > m2)
        largest = m1;
    else
        largest = m2;
    if (m3 > largest)
        largest = m3;
    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;
    printf ("Enter a number:");
    scanf ("%d", & num);
    if (num % 2 == 0) {
        printf ("even number");
    }
    else {
        printf ("odd number");
    }
}
```

Q8 write a program to display table of any 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);
}
```

Q79. Write a program to display first ten terms of the fibonacci sequence.

Ans = Solutions

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, f1 = 0, f2 = 1, next term;
    printf("Enter the number of terms:");
    scanf("%d", &n);
    printf("fibonacci series:");
    for (i = 1; i <= n; ++i) {
        printf("%d ", f1);
        next term = f1 + f2;
        f2 = f1;
        f1 = next term;
    }
}
```

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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 the digits = %d", sum);
}
```

Q11. Write a program to reverse 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);

```

Q11 Write a program To calculate factors of a positive integer.

Ans Solution

```

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

```