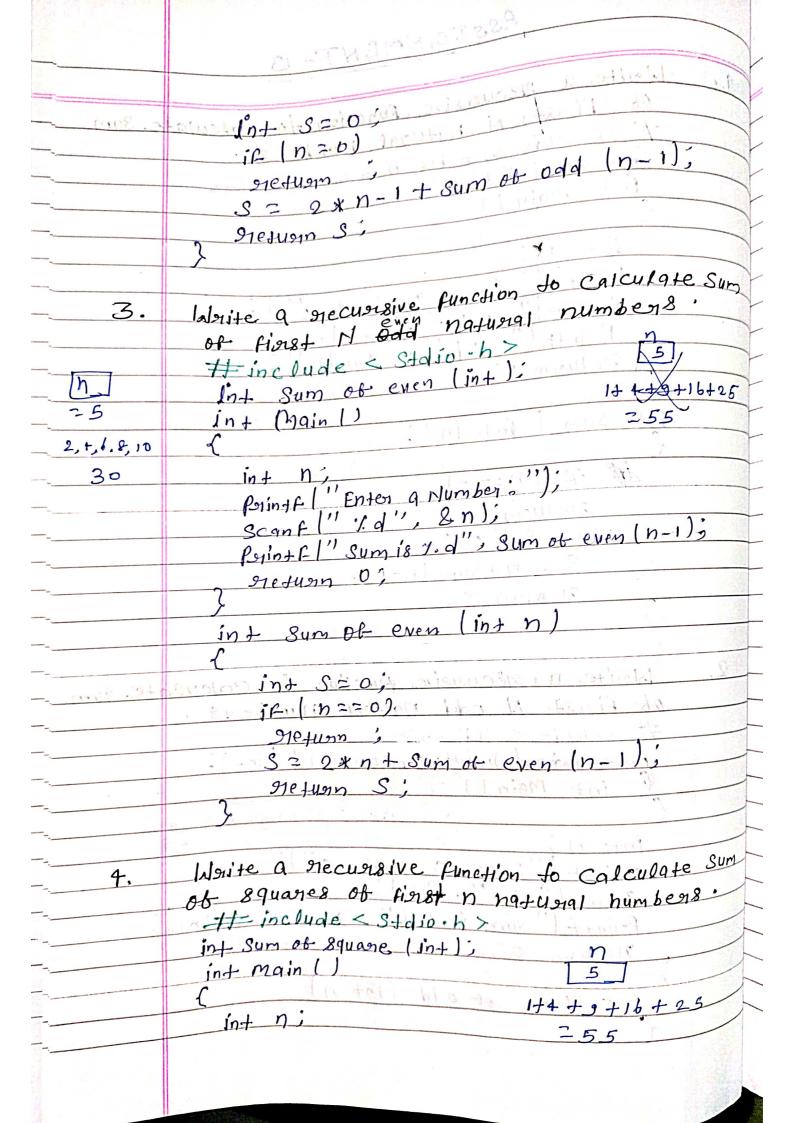
```
ASSIGNMENT-13
```

```
Write a recursive function to Calculate sum
   Of first N natural numbers.
   # include < stdio.h >
  Int Sum ( Ont );
    In+ main ()
     int n;
   Resint F (" Enter a Number! );
     Scant 1" y.d." 1 & m1
     Parin+f [" Y.d", Sum (n))
     Tetunn O',
  int Sum ( Int (n);
    if (n==0)
       gretury 1:
       int S = 0
        S = n + 8 um (n-1);
        Metun S:
  Write a recursive function to calculate sum
  ob figs. N odd 79+49191 numbers.
  # include < Stdioch >
   int main b) int sum of oddd (int);
   int Main ()
  int n:
Paintf ("Enter a Number: ");
 Scanf (" 1.d", &n);
Polint f (" Sum is 1.d", Sum ob
   negyon o",
   int sum of odd Int n
```



Printfl Enter a Number 37); Scanfli /de" will no in the Parintf 1" sum is 1. d" & sum of square (n); netyan 0; int Sum of square (int n) in+ 520; nedunn o' 3 2 n xn + Sum of 89 uare (n-1); nedunn S; INDITE a DECUMBIVE function to calculate sum ob disits of a given number. Hinclude < Stdio. h> int sum of digit (int); int main int x Paintf ("Enter a Number:"); Scanf (" 1.d", & sc)",
Printf (" Sum is 1.d", Sum ob disit(x), of word greating provide areutage of the CF 6b - for mondere int sum of digit (Int y) in+ 5=0; if- (4==0) Hetun, 2107unn Sum ob digit (7/10)+ 9%10;

```
labrite a necusive function to calculate
       factorial of a given number,
6.
        # include < Stdio.h >
        int factorial (int);
         int main ()
            Rosintfl' Enter a Number: ");
                                                         8.
            int main;
              Int x;

Penintf l' Enten a Number);

Scanf l' /.d', Q x);

Penintf l' factorial is /.d', factorial x);
              int xi
             nefugn 0
             disides of a diven number. {
            int main factorial (Int y)
                 int foet =1;
                  if 14==1)
                  netuen 1;
                 Hetuern Foet * faxtorial (4-1);
        Maite a necursive function to calculate
           HCF of two numbers
         # include < Stdio h >
          int hef ( int, int);
          int main ()
            int mair num!, num2;
           Posintfl" Enten Two numbers");
Scanfl" 1. d 1/2 d" & num 1, & num 2
            paintfl" HCF OB Jed and Id is Ted;
              num, num2, hcf(n1, n2)
             nedwin o:
```

```
int her (int a linty)
     ir ( 71 =0)
      91e tunn hef (y, x % y)
      e18-e
      netunn x
    Idente a gecusive function to Paint fingt
     N ferms of Fibonacci Series.
    # include < Stdio-h>
    int fiblint);
    in + main 1 ) to my washing
       Pointf! Enten Number")
       Scanfl'1 %d'1, 2 n);
       For (1=0; 1<n; 1++)
       Point [ 1" /. d", fib ();
       nethan O"
    int fib (int 1);
     if (n==1) (n==0)
     gretuann;
     getynn fib (n-1)+ fib (n-2);
    Write a Brog. sign in C +D Count the digits
9.
     of a given number & using gecusion.
      # include < Stdio . h >
      int proi Count digit ( Dint );
       int main ()
        int a;
```

Perintf ("Enter a number"); Scanf (""d", &x); Scanf ("Id", & digit is r.d", counding ·910+491 0; int Count digit (intoc) int Count = 0 12/1/20/2 (12/===101) environ 39/2 19 gretugin och die Court digit + (x %10); Count ++ Count digit (x/10); Metuan Count