```
Assignment - 13
1 tinclude estations
    int no
      bounté ( Enter a number ");
      scanf ("olad", &n);
      (oring (" suron 20)od", sum (n1);
   int sum cint m)
      int si
      开(加==1)
           return 1;
       (1-10) (m-1);
         return s;
2 # include (stario. h)
   int sum (inth);
   int main ()
      int n;
      printf (Enter a number");
      scanf ("dod", gn);
      printf ("sum is % od ", sum (n));
```

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(n fai) ans tail
  If (h==1)
return 1;
     return (2 x n + + sum(n-1));
3 # include astdio. h/
   int sum (intn);
   for main ()
       in+ nó
         point ("Enter a number");
        scapfle/od", &n);
         Josn At ("sum = e/ed", sum (m));
         return o;
     int sum (int to')
               return 1;
         return (2*n-1+Jum (n-1));
```

4) #Include Lstdionhy int squam cintx); int main () ("enter a number"); scanf ("o/od", gn); point ("sum = elod", squeum (n)); retarno; H squaum (int oc) 耳(n==1) return 生; eturn (axeron nan + squum (n-1)); (5) # include < stdio. h. int sundigit (summa int n); Int main () int n; printe ("enter a duget"); scanf (dod, &h); pontf("dod", sundiget(n)), return o

```
int sundiget (Int toh)
× I (no)010==0)
          return n;
    return no/010+sum (h/10);
@# include < stdio.h/
   int fact (intn);
   int main ()
       prints ("enter a number");
       scanf ("dod", &n);
        |on ne l'factorial = 40d? fact (h));
        returno;
     int fact (int n)
       7 (1)==1)
            return 1;
        return nx fact (n-1)
```

9 # Include (stdio.h) int HCF (int m. fort n): (ht main () int a, bi print ("enter the number"); scanfledodolad, &a.86); printf ("her=e/ed" Her(m,n)); return 0; int HCF (intro, int n) If (myon ==0) return n; If (onyom==0) return m: I (0) 6) 井(かり) return (HCF (molon, n)); else return (HCF (m, 7% m);

mullide estalloin > ent fibonacce (intm); Int main () int no printf ("enter a number"); scant ("dod", 3n); printf ("fibonacci = eled", fibonaccion Int fibonacci (int m) If (10==0) returno; I (mzz) return 1; # (m/t) return fibonacci (n-1)+ fibonacci (n-2);

@ # Include <staio.hh int diget num (int m); int main () int h; print("enter the number"); Scanf ("dod", 8h); printf ("diget z o/od, digetnum (n)). returno; in count I'M count 20; 400 expainely int digothum (int m) digithum (n/10); count ++; return count;

Include Letaio. hy Ent number (int m); int main () int ni point ("Enter anampan"); scarof (" c/od", &n); printe ("num 2 0/od", number (n)); mbor (int m) (m2=1)return 1; return pumber (sqrt(n));