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Assignment 6
                     sum of first N natural numbers
1 WAP to calculate
  # include (stlico. h)
  int main!
    int n, sum =0;
     print["Enter value of n:").
     scanf ("17.d", &n);
     for (int i=1; i(=n; i++)
        Sum +=1;
     Printf("In Sum of % d natural number is Vid", n, sum);
     netwin o;
DWAP to calculate sum of first Neven notwal numbers
  #include(stdio. W
  int main ()
    printf(" Enter value of "");
     xanf("1.d" (6h);
    for(int (=); i(=n; i++)
         sum+=2*1;
    printf (" sum of "/od even notural number is y.d", n, sum);
    gretion o:
Output: Enter value of in 4
         sum of 4 even notweal number is 20
3 WAP to calculate sum of first N odd natural numbers
 #Include (stdio.h)
  int main ()
    scant ("1.d", 6n);
    int sum =0;
    for (Int i=1; i <= n; i++)
        sum +=(2*(-1);
    printf("sum of %od odd natural number is 1,d", n, sum);
    neturn 0;
         cum of 4 odd natural number is 16
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WAP to calculate sum of squares of first N natural numbers #include < stdio. h> int main () int n; scanf ("1,d", bn); int sum =0; tox(int 1=01; ix=1; i+1) sum+= (*i; Prints ("Sum of squares numbers is god", sum); return o: Output: sum of square numbers is 55. 5) WAP to calculate sum of cubes of first N natural number #include (stdio. w int main () L'int n; scomf("/d", bn); int sum = 0; tor(int i=1; ix=n; i++) print("sum is y.d", sum); greturn 0; Output 5 Sum is 225 (3) WAP to calculate factorial of a number #include(stdio. h> int main () scanf ("% of", on); int fact = 1 tox(inti=1;1(=n;1++) fact = fact * 1; pointf("%d! = %d", n, gart); Output: 5 5] = 120

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F) WAP to count digits in a given numbers
#include (stdio. h)
int main ()
   int count=0, N=348678;
     While (n)
      N= N/10;
       count ++;
     prints ("number of digits is 1.d", count);
    return 0;
  Gedput: number of digits is 6
1 WAP to check whether a given number is a prime
  number or not #include (stdio.h)
   int main ()
  int n, i, flag;
     prints ("Enter a number: ");
    Sconf["1.d", 6");
    tor(i=2; i<n; i++)
       if ( n% i = =0)
       1 flag=1;
        ¿ break;
    } if (flag==1)
prints ("Nota prime number");
      else prints (" Brime number");
 3. Tetwin 0;
Output: Enter a number: 5
prime number
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(3) WAP to calculate LCM of two numbers
   #include (stdio.4)
   int main ()
    inf a=25, b=625, m, i;
     m= 9*b;
    tos(i=1; i< m; i++)
       if (1% a == 0 db (1/6b==0)
             break:
    prints (" com is 7.0 d", i);
                output: LCM is 625
    sieturn o;
DWAP to remerse a given number:
   #include (stdio-h)
   Ent main ()
  Int n, i, remainder, neuerse = 0;
     scanf("%d",&n);
    while (n)
     remainder = 1%10;
       り二月110;
       neverse = neverse *10 + nemainder;
     brintf ("Reverse number is 1.d", neverse);
    sieturn o:
 output: 6254
          Reurse number is 4526
```