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Assingment - 7
       Iterative control Statement
 WAP to pind the Nth term of the Ribonnasi
            Sories .
   # includesstdio = h>
  int main()
  int prev = 0, cur = 1, next = 0, n, i,
  printf ("enter a number \n");
Scanf ("%d", &n);
  points ("1");
  For (i= 0; i(n-1; i++)
    next = prev + Cur;
    printf ("/d", next);
     prov = cur;
     Cur = head "
WAP to print pirst N term of Eibonacci Series
 # include < stdio . h>
   int main()
  int prev = 0, cur = 1, next = 0, n, i;
   print ("enter a number \");
    Scanf ("-1.d", 2n);
  print ("1")
     for (i = 0; ikn-1; i++
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next = prev + cur;
       Cur = next;
     printf ("-1.d", next);
 (3) WAP to check whether a given number is those in
    the fibonaci Series or not.
Ans. # include & stdio . h>
     int main ()
     Lint a, b, i;
    printf ("Enter 2 number \n");
     Scanf ("1.d 1.d", sa &b);
    For ( i= 0; 1; i++)
    heat = perev + cur;
     prev = Cur;
      cur = next ;
    if (next = = n)
       printf ("Number found");
       bregk;
    if (next > n)
     printf (" Not found");
      break;
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(4) WAP to calculate MCF of two numbers
       Hindude Cstdio. h>
        int main!)
       int a, b, i, hcf = 1;
       pounts ("enter 2 number \n");
       Scanf (" -1.d 7.d", &a, &b);
       int min = a < b? a: b;
       for (i=1; i <= min; i++)
         if (90/0i = =0) && (60/0i = =0)
          hef = i;
       pointf ("MCF is god", hcf);
        creturn O;
       WAP to print all prime numbers under 100
       # include stdio. h>
Ans -
       int main()
         int i. n. flag = 0;
       for (n=1; n L= 100; n++)
          for (i=2; i <= n|2; i++)
         if (no) i = =0
           flag = 1;
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if (flag == 0)

printf ("1:d" in);
        return 0;
  (7) WAP to print all prime numbers between two
      given numbers.
Ans
       A include ( stdio. h >
      int main()
      int i, n, flag=0;

For (n=10; n = 50; n++)
         flag = 0;
For (i=2; i <= n/2; i++)
          if (n:1: = = 0)
       if (flag==0)

printf("10d", n);
       return 0;
      WAP to find next prime number of a given
             nymber.
Ans
      int i, n, a = 0;
      For (n=20; 1; n++
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For (i=2; i (= n/2; i++)
          if (n 10 i = = 0)
       if (q = = 0)
         points ("1.d", n);
          break ;
       2 return 0;
(11) WAP to find the position of just I in LSB.
Ans
      int main ()
      int x = ?, count = 0;
       int result = 0;
      while (X1 = 0)
       result = x & 1;
       Count++;
          if (result == 1)
          printf(".1.d", Count);
          break;
          \chi = \chi > > 1;
           return 0;
```

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WAP to check whether two given numbers are co
       parime numbers on not
Ans-
       c int main()
        int a, b, i, hcf = 1;
       printf ("enter 2 number \");
        Scanf | "1.d. 1.d", &a , &b);
       int min = a < b ? a : b ;
       For ( i= 1; i <= min; i++)
        if (a o l · i == 0) && (b o l · i == 0)
          hcf = i ?
      if (hcf = 1)

{ print f ("o/od and o/od are co-prime numbers", a,b)}
      [ printf ("-1-d and d-d are not co-prime numbers", a, b);
    Write a program to check whether a given number is an Armstrong number or not
     # include < stdio. h>
      int main() {
    unt num, original Nym, remainder, result = 0;
prints ("enter a three-digit integer;");
Scans (":/.d", &num);
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Original Num = num;
while (original Num L = 0) {
     remainder = Original Num of 10; //contains last dopt
result + = remainder * remainder ;
     I removing last digit from the original number
     Original Num 1= 10;
     if (result = = num)
      printfl" tod is on Armstrong number", num);
     paintfl". I d is not an Armstrong number!" num);
(10) Write a program to print all Armstrong numbers
     under 1000
    H. includes stdig. h.
     int main()
     int num, Count = 1, rem, Sum;
     while (count <= 1000)
      num = Count ;
      Sum = 0;
      while (num)
         num = mumo/010;
         Sum = Sum + (rem " rem " rem);
        num = num / 10;
      if (count = = Sum)
    E printf !" I dis a Armstrong number \n', count ) j
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