```
Print 1st 10 natural numbers using while 100p.
             lamile it 11!
                  Print (i)
                  i = i+1
      Print the tollowing Pattern;
          for i in range (x):
               for j in range (i+1)!
                   Print (" ", end = " ")
               for j in range ( i, K);
                   Print ("1", end = " ")
               . Print ()
    Calculate the sum of all no. from I to a given no.
3)
     for i in range (1111);
           9= 1+9
          print (a)
4) Write a program. to print multiplication table of a given no
   for i in range (1,11);
          Print ( " 12 x", 1, "=", 12 xi)
5) Display numbers from a list using loop.
AL = [112131415]
  for i in L!
      Print (i)
6) Count the total number of digits in a number.
number = " 123456789"
  Print (lengthumber))
7) Print the following pattern: Diamond Shape.
             for i in range (1.4);
                    for I in range (1,4);
                         Print (" ", end = " ")
 04
```

```
for in range (its);
               Print (" :" , end = " ")
            tor i in range (i):
                Print ( " 2", end = " ")
            Print ()
   for 10 in range (3): 100 1 10703 3 183
           for j in range (k+z):
               Print (" ", ende" ")
            for j in range (K13):
               print ("3"; end = " ")
           for j in range (H11,3)!
                Print ( "4" , end = " ")
           Print ()
8) Print list in reverse order using loop
   # lis = [ 1, 2.3, True, " list"]
      for P Pn reversed (113);
              print (1)
   Display numbers from -10 to -1 using for loop.
91
            for ? in range (-10,0):
                   Print (9)
10) Use else block to display a message "bone" after
    Sociesful execution of for 100p 100p 100
  = for f in range (5);
              if 1 == 3;
              princt (" pone")
              else !
                 . Print (" Not Done")
  Write a program to display all prime numbers
111
         det is prime (num)
              if num = 1 !
                  return False
```

```
for i in range ( 2, int. ( num * 0,5)+1) 1
                  if num 1, 1 = = 0
                     return false
                 return True
         A = int ( input ( " enter the Start range ?")]
         B = int ( input (" enter the end ronge!"))
         Print (" prime numbers")
         for number in range (AIB+1);
              if is - Prime (number):
                   Print (number)
     Display Fibonacci Series up to 10 terms.
15
     9 = 10
      b1 c = 012
      Print (" fibonacci series!")
      for i in range (a):
           Print ( b, end = " ")
             b, c = c, b+c
    Find the factorial of a given number.
13)
     q = int (input ("enter a number:"))
      factorial = 1
       for i in ronge (1,0+1);
            factorial * = 1
       Print (" Factorial of this number is, factorial)
```

- n = Int (input ("enter a number"))

 a = int (str(n) [::-1])

 Print ("The number in reverse order is 11, 0)
- 15) Use a loop to display elements from a given list

 Present at odd index positions

 lis = [1,2,3,4,5,True," list"]

 for i in range (1, len(lis),2);

 Print (list [1])
- 16) Calculate the cube of all numbers from 1 to given number.

q = 15

for i in range (1,a);

Print (i, =1, 1**3)

Find the Sum of the Series upoto n terms

N= int(input ("Enter the number of terms!"))

Series = n x (n+1)//2

Print (" Sum of the Series:", series)

```
13) Print the following pattern: 1234

a=5

for i in range (1, at1):

for j in range (1, it1):

Print (j, end = "")

Print ("")
```