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In [15]: #1. Convert Binary number to decimal num-int(input("enter a binary number: ")) sum=0 i=0 while num(=0:
                                  rem=num%10
                                 sum=sum+rem*pow(2,i)
num=int(num/10)
                         i=i+1
print("decimal number= ", sum)
                       enter a binary number: 1011
decimal number= 11
In [16]: #2. Generate first N number of Fibonacci numbers. Take N value from user nerms = int(input("enter the n value "))
n1, n2 = 0, 1
count = 0
if nterms <= 0:
print("Please enter a positive integer")
elif nterms := 1:
print("Fibonacci sequence upto",nterms,":")
print(n1)
else:
print("Fibonacci sequence:")
while count < nterms:
print(n1)
nth = n1 + n2
n1 = n2
n2 = nth
count += 1
                                         count += 1
                         enter the n value 5
Fibonacci sequence:
In [17]: #3. Display multiplication table of K. Take k value from user
    #Ex: 7 x 1 =7
    #7 x 2 = 14 ...
    num = 7
    for i in range(1, 11):
        print(num, 'x', i, '=', num*i)
                       7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70
    In [1]: #4A.Take 10 integers from keyboard using loop and print their average value on the screen Print the following patterns using loop:
                       add=0
for i in range(1,11):
    n=int(input('value is: '))
    add=add+n
print(add/10)
                       value is: 4
    In [4]: #4B.program to print pattern
                        rows=4
for i in range(0,rows):
    for j in range(0,i+1):
        print(''',end='')
    print('\r')
    In [1]: #5.Write a program to find greatest common divisor (GCD) or highest common factor (HCF) of g
                        iven two numbers.

a = float(input(" Please Enter the First Value a: "))

b = float(input(" Please Enter the Second Value b: "))
                       i = 1
while(i <= a and i <= b):
    if(a % i == 0 and b % i == 0):
        gcd = i
    i = i + 1
print("\n HCF of {0} and {1} = {2}".format(a, b, gcd))</pre>
                          Please Enter the First Value a: 81
Please Enter the Second Value b: 153
                          HCF of 81.0 and 153.0 = 9
In [20]: #6.program that accepts a word from the user and reverse it
word = input("Input a word to reverse: ")
for char in range(len(word) - 1, -1, -1):
    print(word(char], end="")
print("\n")
                       Input a word to reverse: python nohtyp
In [21]: #7.program to count the number of even and odd numbers from a series of numbers
numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9)
count_odd = 0
count_even = 0
for x in numbers:
    if not x % 2:
        count_even*=1
else:
                        count_even+=1
else:
    count_odd+=1
print("Number of even numbers :",count_even)
print("Number of odd numbers :",count_odd)
  In [23]: W8.Write a Python program that prints all the numbers from 0 to 6 except 3 and 6.
for x in range(6):
    if (x == 3 or x==6):
        continue
    print(x, end=' ')
    print('\n'')
                       0 1 2 4 5
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In []: