

Ex: 10010 =  $1 \times 2^5 + 0 \times 2^4 + 0 \times 2^3 + 1 \times 2^2 + 0 \times 2^1$

Q. Generate first N number of Fibonacci numbers take N value from user.

# Python program to generate Fibonacci Series until value.

n = int(input("Enter the value of 'n':"))

a = 0

b = 1

sum = 0

count = 1

print("Fibonacci Series: ", end = "")

print(a)

while (count <= n):

    Print (sum, end = " ")

    Count += 1

    a = b

    b = sum

    Sum = a + b

3. Display multiplication table of k. Take k value from user.

num = 12

# To take input from the user

# num = int(input("Display multiplication table of  
?"))

# Iterate 10 times from i=1 to 10

for i in range(1, 11):

    Print (num, 'x', i, '=', num \* i)

Output:-

12 x 1 = 12

12 x 2 = 24

12 x 3 = 36

12 x 4 = 48

12 x 5 = 60

12 x 6 = 72

12 x 7 = 84

12 x 8 = 96

12 x 9 = 108

12 x 10 = 120

Print 10 integers from keyboard using loop and  
Print their average value on the Screen.

Print the following patterns using loop:

\*  
\*\*  
\*\*\*  
\*\*\*\*

num = int(input('How many numbers: '))

total\_sum = 0

for n in range(num):

    numbers = float(input('Enter number: '))

    total\_sum += numbers

avg = total\_sum / num

Print('Average of', num, 'numbers is:', )

5. Write a program to find GCD or HCF of given two numbers.

Ans:- # Python program to find GCD of two Numbers using while loop

num1 = int(input("Enter 1st number: "))

num2 = int(input("Enter 2nd number: "))

i = 1

while (i <= num1 and i <= num2):

    if (num1 % i == 0 and num2 % i == 0):

        gcd = i

        i = i + 1

Print("GCD")

6. Write a

from the

Ans:- word = in

To write  
of even  
number

Ans:- #

num

# List of

List l = [10]

even - cou

# iteration

for num in

# che

if r

else

Print("A")

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print("GCD is", gcd)
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6. Write a python program that accepts a word from the user and reverse it.

Ans:- word = input("Input a word to reverse: ")

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for char in range(len(word) - 1, -1, -1):
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    print(word[char], end="")
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print("\n")
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7. write a python program to count the number of even and odd numbers from a series of numbers.

Ans:- # Python program to count even and odd numbers in a list

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# List of numbers.
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list1 = [10, 21, 4, 45, 66, 93, 1]
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```
even_count, odd_count = 0, 0
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```
# Iterating each number in list
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for num in list1:
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```
# Checking condition
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if num % 2 == 0:
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```
    even_count += 1
```

```
else:
```

```
    odd_count += 1
```

```
print("Even numbers in the list : ", even_count)
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Print("Odd numbers in the list: ", odd)

8. 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")

