



```
1 b=list(input("Input a binary number:"))
2 v = 0
3 for i in range(len(b)):
4     d = b.pop()
5     if d == '1':
6         v = v + 2**i
7 print("The decimal value of the number is", v)
```

Input a binary number: 11010
The decimal value of the number is 26



```
1 n= int(input("Number of terms: "))
2 n1, n2 = 0, 1
3 c= 0
4 if n<= 0:
5     print("Enter a positive integer")
6 elif n== 1:
7     print("Fibonacci series:")
8     print(n1)
9 else:
10    print("Fibonacci series:")
11    while c<n:
12        print(n1)
13        nth = n1 + n2
14        n1 = n2
```

Number of terms: 5

Fibonacci series:

0
1
1
2
3



```
1 s=0
2 print("Enter 10 numbers")
3 for i in range(1,11):
4     n=int(input("Enter number:"))
5     s+=n
6 print("The average of given 10 numbers
  is :",s/10)
7
```

Enter 10 numbers

Enter number:4

Enter number:7

Enter number:8

Enter number:9

Enter number:3

Enter number:34

Enter number:60

Enter number:12

Enter number:10

Enter number:50

The average of given 10 numbers is : 19.7



```
1 n=int(input("Enter number of rows:"))
2 for i in range(0, n):
3     for j in range(0, i+1):
4         print("* ",end="")
5     print("\r")
```

Enter number of rows:4

```
*
* *
* * *
* * * *
```



```
1 k=int(input("Enter a number: "))
2 for i in range(1,11):
3     print(k,'x',i,'=',k*i)
```

Enter a number: 8

8 x 1 = 8
8 x 2 = 16
8 x 3 = 24
8 x 4 = 32
8 x 5 = 40
8 x 6 = 48
8 x 7 = 56
8 x 8 = 64
8 x 9 = 72
8 x 10 = 80



```
1 n1=int(input("Enter 1st number: "))
2 n2=int(input("Enter 2nd number: "))
3 i=1
4 while(i<=n1 and i<=n2):
5     if(n1%i==0 and n2%i==0):
6         gcd = i
7         i=i+1
8 print("GCD is", gcd)
9 if n1>n2:
10     smaller=n2
11 else:
12     smaller=n1
13 for i in range(1,smaller + 1):
14     if((n1%i==0) and (n2%i==0)):
```

Enter 1st number: 45

Enter 2nd number: 70

GCD is 5

HCF is 5



```
1 def Even_Odd(l):
2     e=0
3     o=0
4     for i in l:
5         if i%2==0:
6             e+=1
7         else:
8             o+=1
9     print("number of even
10    numbers :",e)
11    print("number of odd numbers :",o)
12 n=int(input("Enter no of elements in
    series: "))
13 l=[]
```

Enter no of elements in series: 4

Enter a number:4

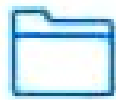
Enter a number:5

Enter a number:8

Enter a number:12

number of even numbers : 3

number of odd numbers : 1



```
1 s=input("Enter a word:")
2 l=list(s.split())
3 if len(l)>1:
4     print("Enter only a single word")
5 else:
6     print("Reverse of given word
    is:",s[::-1])
```

Enter a word:dog
Reverse of given word is: god



```
1 for i in range(0,7):  
2     if i==0 or i%3!=0:  
3         print(i)
```

```
0  
1  
2  
4  
5
```