

Binary.py



```
b=list(input("Input a binary number:
"))

v = 0
for i in range(len(b)):
    d = b.pop()
    if d == '1':
    v = v + 2**i

print("The decimal value of the number is", v)
```



Fibonacci.py



```
1 n= int(input("Number of terms: "))
2 \text{ n1}, \text{ n2} = 0, 1
3 C= 0
4 if n<= 0:
     print("Enter a positive integer")
6 elif n== 1:
     print("Fibonacci series:")
7
     print(n1)
8
9 else:
     print("Fibonacci series:")
10
     while c<n:
11
          print(n1)
12
          nth = n1 + n2
13
          n1 = n2
14
          n2 = nth
15
          c+=1
16
```



MultiplicationTable.py



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



Average.py



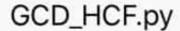
```
1 s=0
2 print("Enter 10 numbers")
3 for i in range(1,11):
4     n=int(input("Enter number:"))
5     s+=n
6 print("The average of given 10 numbers
7 is :",s/10)
8
```



Pattern.py



```
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")
```







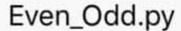
```
n1=int(input("Enter 1st number: "))
2 n2=int(input("Enter 2nd number: "))
3i=1
4 while(i<=n1 and i<=n2):
    if(n1%i==0 and n2%i==0):
      gcd = i
6
    i=i+1
8 print("GCD is", gcd)
9 if n1>n2:
      smaller=n2
11 else:
      smaller=n1
12
13 for i in range(1,smaller + 1):
      if((n1%i==0) and (n2%i==0)):
          hcf=i
15
16 print("HCF is", hcf)
```



Rev.py



```
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])
```





```
1 def Even_Odd(l):
      e=0
2
      0=0
3
      for i in l:
4
5
          if i%2==0:
               e+=1
6
7
          else:
               0+=1
8
      print("number of even
9
  numbers :",e)
      print("number of odd numbers :",o)
n=int(input("Enter no of elements in
  series: "))
12 [ ]
13 for i in range(0,n):
      k=int(input("Enter a number:"))
14
      l.append(k)
15
16 Even_Odd(l)
```



Except.py



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