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

```
n= int(input("Number of terms: "))
n1, n2 = 0, 1
c= 0
if n<= 0:
   print("Enter a positive integer")
elif n== 1:
   print("Fibonacci series:")
   print(n1)
else:
   print("Fibonacci series:")
   while c<n:
       print(n1)
       nth = n1 + n2
       n1 = n2
       n2 = nth
       c+= 1
```

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

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

```

Pattern.py

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

GCD_HCF.py

```
n1=int(input("Enter 1st number: "))
n2=int(input("Enter 2nd number: "))
i=1
while(i<=n1 and i<=n2):
  if(n1%i==0 and n2%i==0):
    gcd = i
  i=i+1
print("GCD is", gcd)
if n1>n2:
    smaller=n2
else:
    smaller=n1
for i in range(1,smaller + 1):
    if((n1%i==0) and (n2%i==0)):
        hcf=i
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])
```

Even_Odd.py

```
def Even_Odd(l):
    e=0
    o=0
    for i in l:
        if i%2==0:
            e+=1
        else:
            o+=1
    print("number of even numbers :",e)
    print("number of odd numbers :",o)
n=int(input("Enter no of elements in series: "))
l=[]
for i in range(0,n):
    k=int(input("Enter a number:"))
    l.append(k)
Even_Odd(l)
```

Except.py

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