```
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



Except.py



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



Even_Odd.py

```
\times
```

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

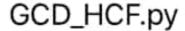
Enter no of elements in series: 4 Enter a number:4

Enter a number:5

Enter a number:8

Enter a number:12

number of even numbers . 2







```
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
    i=i+1
7
8 print("GCD is", gcd)
9 if n1>n2:
      smaller=n2
10
11 else:
      smaller=n1
12
13 for i in range(1, smaller + 1):
if ((n1\%i==0)) and (n2\%i==0):
```

Enter 1st number: 45 Enter 2nd number: 70

GCD is 5 HCF is 5



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")
```

Enter number of rows:4

* * *



Fibonacci.py



```
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:")
     print(n1)
9 else:
     print("Fibonacci series:")
10
     while c<n:
11
          print(n1)
12
          nth = n1 + n2
13
          n1 = n2
```

Number of terms: 5 Fibonacci series: 0 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)
```

Enter 10 numbers Enter number:4 Enter number:7 Enter number:8



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)
```

Input a binary number: 11010

The decimal value of the number is 26