```
n=int(input("enter an number:"))
count=0
for i in range (1,n+1):
    if(n%i==0):
        count+=1
if(count==2):
    print("is prime")
else:
    print("not prime")
```

```
enter an number:7
is prime
[Program finished]
```

```
##fibonacci Series
nterms = int(input("How many terms? "))
n1, n2 = 0, 1
count = 0
if nterms <= 0:
 print("Please enter a positive integer")
elif nterms == 1:
 print("Fibonacci sequence upto",nterms,
 print(n1)
else:
 print("Fibonacci sequence:")
 while count < nterms:
   print(n1)
   nth = n1 + n2
   n1 = n2
   n2 = nth
   count += 1
```

```
How many terms? 6
Fibonacci sequence:
0
1
2
3
5
[Program finished]
```

```
#factorial of a number
n = int(input('enter an number'))
factorial = 1
for i in range(1, n + 1):
    factorial *= i
print('Factorial of %d is %d' % (n,
factorial))
```

```
enter an number5
Factorial of 5 is 120
[Program finished]
```

```
# Armstrong number or not

num = int(input("Enter a number: "))|
sum = 0
temp = num
while temp > 0:
    digit = temp % 10
    sum += digit ** 3
    temp //= 10
if num == sum:
    print(num,"is an Armstrong number")
else:
    print(num,"is not an Armstrong number")
```

```
Enter a number: 153
153 is an Armstrong number
[Program finished]
```

```
##prime upto limit
n=int(input("enter an limit:"))
print("Prime upto", n, "are:")

for i in range(2, n + 1):

   if i > 1:
      for j in range(2, i):
        if (i % j== 0):
           break
   else:
      print(i)
```

```
enter an limit:6
Prime upto 6 are:
2
3
5
[Program finished]
```

```
#perfect or not
n = int(input("Enter any number: "))
sum1 = 0
for i in range(1, n):
    if(n % i == 0):
        sum1 = sum1 + i
if (sum1 == n):
    print("The number is a Perfect
number!")
else:
    print("The number is not a Perfect
number!")
```

```
Enter any number: 27
The number is not a Perfect number!

[Program finished]
```