Write a Program armstrong number.

```
n=153
T=n
S=o
while (n>o)
    r=n%10
    S=S+r*r*r
    n=n//10
if (s===T):
    It is Parindrom strong
else:
    It is not Parindrome
```

2) Write a program to find the greatest common divisor (GCD) of two numbers.

A)
```
a=12
b=18    b!=0
while b! =0:
    a,b=b,a%,b
print (a)
```

$12)18 ($
$\frac{12}{0}$

$12,18=18, 12\times18$
$a, 12,6=6, 12\times6$

b)$18(2$
$\frac{12}{0}$

3) write a program to a perfect number

```
n=12
S=o
for i in range (1,12):
    while (n>o):
    if n%i==0:
        S=S+i:
    if (s==n):
        print ('it is perfect number)
    else:
        print ('it is not perfect number)
```

Write the Program Sum of the first n natural numbers

i) n=100
   i = 1
   s = 0
   while i<=n:
      s=s+i
      i+=1
   print (s)

Write a Program to generate Prime numbers between 1 and 100.

Sol)   P=[ ]
for i in range (100):
    c=0.
    for j in range (2, i):
      if i%j ==0:
        c=c+1.
        break
    if c==0:
      P. append(i)
print(p)

write a Program to print right angle triangle

n=5
for i in range(n):
   for j in range (i):
      print('*', end='')
   print()

Write a program to check if a number a palindram

```
n=121
s¹=0
while (n>0)
    r=n%10
    s=s*10+r
    n=n/10
if (s==t):
    print ("It is paindrome)
else:
    print ('It is not paindrome)
```

Write a program to reverse a string without using built in functions

Sol
```
s='ganesh'
r=''
n=len(s)-1   n. 6-1=5  s w>=0  ✓
    while n>=0:     while b>=0
        r+=s[n]        r=           r=h+s
        n-=1           r=@+h        r=hse nag
    print(r)           r=h
                       n=4
```

Write a program to calculate
Sum of the squares of n   n=5
                                     wli 5>=0   n=5-1
natural numbers   r=r+5(n)   n=4
Sol   n=3   r=r+5   r=h+(5)
       s=0   = hs.
    for i in range (1,n+1):   r=h
        s=s+i*i   n=n-1
    print(s)
```

Write a program to print numbers in ascending and descending order using a loop

```
n=50
for i in range(1,n):
    print(i, end=' ')
print()
for i in range(n,0,-1):
    print(i, end='')
```

10) Write a programme to calculate the sum of squares of the first n natural numbers.

```
n=3
s=0
for i in range(1,n+1):
    s=s+i*i
    print(s)
```