Program to print N natural number:

```
num=int(input("enter the value")
i=1
while i<=num:
    print(i)
    i=i+1
```

Program to sum the N natural number:

```
num=int(input("enter the number"))
sum=0
i=1
while i<=num:
    sum=sum+i
    i=i+1
print("the sum of",num,"natural numbers is",sum)
```

Fibonacci Series Program using loop

```
num=int(input('enter the term'))
a=0
b=1
count=0
while(count<num):
    print(a)
    sum=a+b
    a=b
    b=sum
    count+=1
```

Factorial Using Loop Program

```
num=int(input("enter a number: "))
fact=1
```

```python
for i in range(1,num+1):
        fact = fact*i
print("factorial of ", num, " is ", fact)
```

Armstrong number program

```python
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")
```

Palindrome Program:

```python
num=int(input("Enter a number:"))
temp=num
rev=0
while(num>0):
  dig=num%10
  rev=rev*10+dig
  num=num//10
if(temp==rev):
  print("The number is palindrome!")
else:
  print("Not a palindrome!")
```

Program to find if it is a leap year or not:

```python
inputyear=int(input("Please Enter the Year Number you wish: "))
```

```python
if (( inputyear%400 == 0)or (( inputyear%4 == 0 ) and ( inputyear%100 != 0))):

    print(inputyear,"is a Leap Year")

else:

    print(inputyear,"is Not the Leap Year")
```

Multiplication Table Program:

```python
num=int(input("Display multiplication table of"))

for i in range(1,13):

    print(num, 'x', i, '=', num*i)
```

Program to find largest of three numbers:

```python
num1 = int(input("Enter first number: "))

num2 = int(input("Enter second number: "))

num3 = int(input("Enter third number: "))

if (num1 >= num2) and (num1 >= num3):

    largest = num1

elif (num2 >= num1) and (num2 >= num3):

    largest = num2

else:

    largest = num3

print("The largest number is", largest)
```

Calculator Program (Arithematic Operations)

```python
def add(x, y):

    return x + y

def subtract(x, y):

    return x - y

def multiply(x, y):

    return x * y

def divide(x, y):

    return x / y

print("Select operation.")
```

```python
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")
choice = input("Enter choice(1/2/3/4): ")
num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))
if choice == '1':
    print(num1,"+",num2,"=", add(num1,num2))
elif choice == '2':
    print(num1,"-",num2,"=", subtract(num1,num2))
elif choice == '3':
    print(num1,"*",num2,"=", multiply(num1,num2))
elif choice == '4':
    print(num1,"/",num2,"=", divide(num1,num2))
else:
    print("Invalid input")
```