

Armstrong Number in Python

Code :

```
num=int(input("Enter a Number : "))
original=num
sum=0
length=len(str(num))

while(num>0):
    digit=num%10
    sum=sum+digit**length
    num//=10

if (sum==original):
    print(original," is a Armstrong Number ")
else:
    print(original," is Not a Armstrong Number ")
```

OUTPUT :

```
Enter a Number : 153
153 is a Armstrong Number
```

Neon Number in Python

Code :

```
num=int(input("Enter a Number : "))
```

```
Square=num**2
```

```
#print(Square)
```

```
Result=0
```

```
while(Square>0):
```

```
    temp=Square%10
```

```
    Result=Result+temp
```

```
    Square=Square//10
```

```
if(num==Result):
```

```
    print(num," is a Neon Number")
```

```
else:
```

```
    print(num," is not a Neon Number")
```

OUTPUT : Enter a Number : 9

9 is a Neon Number

Palindrome Number in Python

Code :

```
num=int(input("Enter a Number : "))
```

```
temp=num
```

```
sum=0
```

```
while (num>0):
```

```
    digit=num%10
```

```
    sum=digit+sum*10
```

```
    num=num//10
```

```
if(sum==temp):
```

```
    print("Palindrome Number ")
```

```
else:
```

```
    print("Not a Palindrome Number ")
```

OUTPUT : Enter a Number :1551

Palindrome Number

Prime Number in Python

Code :

```
num=int(input("Enter a Number : "))

if(num<2):
    print(num," is Not a Prime Number ")
else:
    for i in range(2,num):
        if(num%i==0):
            print(num," is Not a Prime Number ")
            break
    else:
        print(num," is a Prime Number")
```

OUTPUT : Enter a Number : 21

21 is Not prime Number

Fibonacci Series in Python

```
num=int(input("Enter a Number : "))  
x=0  
y=1  
z=0  
while(z<=num):  
    print(z)  
    x=y  
    y=z  
    z=x+y
```

OUTPUT : Enter a Number : 5

```
0  
1  
1  
2  
3  
5
```