**1.Palindrome**

n=int(input("Enter the number:"))

temp=n

rev=0

while(n>0):

dig=n%10

rev=rev\*10+dig

n=n//10

if(temp==rev):

print("palindrome")

else:

print("it is not palindrome")

I/p:

Enter the number:121

Palindrome

Enter the number:564

It is not palindrome

1. **Reverse number**

num=int(input("Enter the number:"))

rev=0

while(num>0):

a=num%10

rev=rev\*10+a

num=num//10

print("The reversed number:",rev)

I/p:Enter the number:2356

O/p:The Reversed number:6532

1. **Armstrong number**

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")

I/p:Enter a number:153

O/p:is an Armstrong number

1. **Pattern**

rows = input("Enter number of rows: ")

rows = int (rows)

for i in range (0, rows):

for j in range(0, i + 1):

print("\*", end=' ')

print("\r")

I/p:Enter number of rows :5

O/p:

\*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\*