1.Number Series

Write a program to find the sum the series ½!+2/3!+3/5!+4/5!+…N!(N+1)!

n=int(input("enter a number:"))

sum=0

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

sum=sum+(i/(i+1))

print("the sum is ",sum)

Output:

enter a number:6

the sum is 4.4071428571428575

2.Number pyramid-Inverted pyramid pattern with same digit

Program:

n=int(input("enter a number:"))

for i in range(n,0,-1):

print()

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

print(n,end=" ")

Output:

enter a number:5

5 5 5 5 5

5 5 5 5

5 5 5

5 5

5

3.Pyramid pattern-right down mirror star pattern

Program:

num=int(input("enter the number of rows:"))

for i in range(num,0,-1):

for j in range(0,i):

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

print()

Output:

enter the number of rows:6

\* \* \* \* \* \*

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

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4.Reversing a number

Pogram:

num=int(input("enter a number:"))

sum=0

while(num>0):

rem=num%10

sum=(sum\*10)+rem

num=num//10

print("reverse number is :",sum)

Output:

enter a number:67

reverse number is : 76