Name:Kishore babu.b

22csea41

1. Number series

Write a program to find the sum of series 1/2!+2/3!+3/5!+4/6!+. N/(N+1)!

Write a Program to print the Fibonacci series.

**PROGRAM:**

num=int(input(“enter your limit:”)) res = 0

fact = 1

for i in range(1, num+1): fact \*= i

res = res + (i/ fact)

print(“the sum of the series is :”,res)

# OUTPUT:

enter your limit:10

the sum of the series is : 2.7182815255731922

1. Number Pyramid - Inverted Pyramid pattern with the same digit

# PROGRAM:

rows = 5 num = rows

for i in range(rows, 0, -1): for j in range(0, i):

print(num, end="") print("\r")

# OUTPUT:

**55555**

**5555**

**555**

**55**

**5**

1. Pyramid Pattern - Right down mirror star Pattern

# PROGRAM:

n=int(input("Enter the number of rows:")) space=0

for i in range(n):

for j in range(space): print("",end=" ")

space=space+1

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

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

# OUTPUT:

**Enter number of rows:5**

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

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

**\* \* \***

**\* \***

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1. Reversing a Number

# PROGRAM:

num = int(input("enter a number:")) reversed\_num = 0

while (num != 0):

digit = num % 10

reversed\_num = reversed\_num \* 10 + digit

num //= 10

print("Reversed Number:"+ str(reversed\_num))

# OUTPUT:

enter a number:345 Reversed Number:543