EXPERIMENT 4

PROGRAM FOR SERIES1/2!+2/3!+3/4!+…..N/N+1!

s=0

f=1

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

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

f=(f+1)\*i

s=s+(i/f)

OUTPUT

Enter a number:5

1.0328809767012013

PROGRAM FOR FIBONACCI SERIES

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

n1=0

n2=1

sum=0

i=1

while(i<=n):

print(sum,end="")

i=i+1

n1=n2

n2=sum

sum=n1+n2

OUTPUT

enter n:10

0112358132134

PROGRAM FOR PRINTING NUMBER PATTERN WITH SAME DIGIT

rows = 5

b = 0

# reverse for loop from 5 to 0

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

b += 1

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

print(5, end=' ')

print('\r')

OUTPUT

5 5 5 5 5

5 5 5 5

5 5 5

5 5

5

PROGRAM FOR Right down mirror star Pattern

rows = 5

i = rows

while i >= 1:

j = rows

while j > i:

# display space

print(' ', end=' ')

j -= 1

k = 1

while k <= i:

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

k += 1

print()

i -= 1

OUTPUT

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PROGRAM FOR REVERSING A NUMBER

num = 1234

reversed\_num = 0

while num != 0:

digit = num % 10

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

num //= 10

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

OUTPUT

Reversed Number: 4321