PYTHON RECORD

PROGRAMS ON CONTROL STATEMENTS

1 NUMBER SERIES:

WRITE A PROGRAM TO FIND THE SUM OF THE SERIES 1/2! + 2/3! + 3/4! .....N/(N+1)!

CODING:

print("SUM OF THE SERIES 1/2! + 2/3! + 3/4! .....N/(N+1)!")

n=int(input("Enter number of terms :"))

f=1; s=0

for i in range(n+1):

f=f\*(i+1)

s=s +(i/f)

print("SUM OF THE SERIES UPTO ",n ,"IS",s)

OUTPUT:

SUM OF THE SERIES 1/2! + 2/3! + 3/4! .....N/(N+1)!

Enter number of terms :4

SUM OF THE SERIES UPTO 4 IS 0.9916666666666666

WRITE THE PROGRAM TO FIND THE FIBONACCI SERIES:

CODING:

print("FIBONACCI SERIES")

n=int(input("Enter number of terms :"))

a=int(input("Enter first value {usually 0} :"))

b=int(input("Enter first value {usually 1} :"))

print(a)

print(b)

i=0

while(i<n-2):

c=a+b

print(c)

a=b

b=c

i=i+1

OUTPUT:

FIBONACCI SERIES

Enter number of terms :4

Enter first value {usually 0} :0

Enter first value {usually 1} :1

0

1

1

2

2 NUMBER PYRAMID: INVERTED PYRAMID PATTERN WITH SAME DIGIT

5 5 5 5 5

5 5 5 5

5 5 5

5 5

5

CODING:

i=5

while(i>0):

for x in range(i):

print('5',end=' ')

print()

i=i-1

OUTPUT:

5 5 5 5 5

5 5 5 5

5 5 5

5 5

5

3 PYRAMID PATTERN: RIGHT DOWN MIRROR STAR PATTERN

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CODING:

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

for i in range(n):

for j in range(i):

print(" ",end="")

for j in range(n-i):

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

print()

OUTPUT:

Enter number of rows:5

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4 REVERSING A NUMBER

CODING:

print("REVERSING DIGITS")

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

s=0;a=n

while(n>0):

r=n%10

n=n//10

s=(s\*10)+r

print("ACTUAL NUMBER:",a,", REVERSED NUMBER:",s)

OUTPUT:

REVERSING DIGITS

Enter a number:5378

ACTUAL NUMBER: 5378 , REVERSED NUMBER: 8735