Ex.no. 4

1)Sum of the series (1+3+5+….+n):

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

sum=0

for i in range(1,n+1,2):

sum+=i

print("sum of the series 1+3+5+....+n",sum)

output:

enter value 9

sum of the series 1+3+5+....+n 1

sum of the series 1+3+5+....+n 4

sum of the series 1+3+5+....+n 9

sum of the series 1+3+5+....+n 16

sum of the series 1+3+5+....+n 25

>>>

2)sum of the series 1+2+3+..+n:

n=int(input("enter the no:"))

sum=0

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

sum+=i

print("sum of the series 1+2+3+..+n",sum)

output:

enter the no:11

sum of the series 1+2+3+..+n 1

sum of the series 1+2+3+..+n 3

sum of the series 1+2+3+..+n 6

sum of the series 1+2+3+..+n 10

sum of the series 1+2+3+..+n 15

sum of the series 1+2+3+..+n 21

sum of the series 1+2+3+..+n 28

sum of the series 1+2+3+..+n 36

sum of the series 1+2+3+..+n 45

sum of the series 1+2+3+..+n 55

sum of the series 1+2+3+..+n 66

>>>

3)Number pyramid:

rows=5

i=1

while( i<=rows):

j=1

while (j<=i):

print((i\*2-1),end="")

j=j+1

i=i+1

print("")

output:

1

33

555

7777

99999

>>>

4)Pyramid pattern equilateral triangle:

n=int(input("enter the no. of rows:"))

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

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

print(end=" ")

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

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

for i in range (1,i):

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

print()

output:

enter the no. of rows:6

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5)Prime numbers from 0 to 50:

a=0

b=50

print(" prime numbers between",a,"and",b,"are:")

for num in range (a,b+1):

if (num>1):

for i in range (2,num):

if (num%i==0):

break

else:

print(num)

output:

prime numbers between 0 and 50 are:

2

3

5

7

11

13

17

19

23

29

31

37

41

43

47

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