# I.NUMBER SERIES

## Program to find the sum of series 1+3+5+7...+N

**Program:**

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

sum=0

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

sum=sum+i

print("\nThe sum of 1+3+5+7..+N is ",sum)

Output:

Enter a number: 9

The sum of 1+3+5+7...+N is 25

>

## Program to find the sum of series 1+2+3…+N

**Program:**

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

sum=0

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

sum=sum+i

print("\n The sum of 1+2+3+5+7…+N is ",sum)

**Output:**

Enter a number: 9

The sum of 1+2+3...+N is 45

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# II.NUMBER PYRAMID-ALTERNATIVE NUMBERS

**Program:**

r=5

n=1

while(n<=r):

j=1

while(j<=n):

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

j=j+1

n=n+1

print("")

**Output:**

1

33

555

7777

99999

# III.PYRAMID PATTERN-EQUILATERAL TRIANGLE

**Program:**

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

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

print(' '\*n+i\*' \*')

n=n-1

**Output:**

Enter a number: 5

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# IV.PRINT ALL THE PRIME NUMBERS FROM 1 to 50

Program:

for i in range(1,51):

sum=0

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

if(i%j==0):

sum=sum+1

if(sum==2):

print(i)

**Output:**

2

3

5

7

11

13

17

19

23

29

31

37

41

43

47