*1.NUMBER SERIES*

*1.a.SUM of ODD NUMBERS*

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

sum=0

i=1

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

sum=sum+i

print(sum)

*OUTPUT:*

enter the value 9

25

*b.SUM OF ‘n’ NATURAL NUMBERS*

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

i=1

sum=0

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

sum=sum+i

print(sum)

OUTPUT:

enter the value 9

45

*2.PRIME NUMBERS*

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,end=' ')

OUTPUT:

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47

*3.EQUILATRAL TRIANGLE*

n=int(input("enter num of rows"))

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

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

n=n-1

OUTPUT:

enter num of rows 5

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*4. PYRAMID FOR ALTERNATIVE NUMBERS*

*for i in range(1,10,2):*

*for j in range(i):*

*print(i,end=" ")*

*print()*

*OUTPUT:*

*1*

*3 3*

*5 5 5*

*7 7 7 7*

*9 9 9 9 9*