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# Ex 4. Programs on Control Statements

I.a. Write a program to find the sum of series 1+3+5+7..+N.

#### Program:

```
n=int(input("Enter n value:"))
sum=0
i=0
temp=1
while i<n:
    sum+=temp
    temp+=2
    i+=1
print(sum)
Ouput:
Enter n value:4
16</pre>
```

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# I.b. Write a program to find the sum of series 1+2+3..+N.

# Program:

```
n=int(input("Enter n value:"))
sum=0
i=1
while i<=n:
  sum+=i
  i+=1
print(sum)
Output:
```

Enter n value:5 15

## II. Number Pyramid - Alternate numbers pattern using while loop

## Program:

rows = 5

i = 1

while i <= rows:

j = 1

while  $j \le i$ :

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

j = j + 1

i = i + 1

print(")

## Output:

1

3 3

5 5 5

7777

99999

# III. Pyramid Pattern - Equilateral triangle pattern of star

## Program:

n=int(input("Enter n value:"))

for i in range(1,7):

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

print('\* '\*(i))

n-=1

#### Output:

Enter n value:5

\*

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#### IV. Print all the prime numbers from 1–5

```
Program:
lower=1
upper=50
print("Prime numbers between", lower, "and", upper, "are:")
for i in range(lower, upper + 1):
    if i > 1:
        for j in range(2, i):
            if (i% j== 0):
                 break
        else:
            print(i,end=",")
```

#### Output:

Prime numbers between 1 and 50 are:

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

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