**Problems on Control Statements :**

**Group 5 & 11**

1. **Number series**

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

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

**Program:**

n=int(input("enter the number:"))

i=1

sum=0

while(i<n+1):

sum=sum+i

i=i+1

print("sum","=",sum)

**output**:

enter the number:10

sum = 55

**program:**

n=int(input("enter the number:"))

i=1

sum=0

while(i<n+1):

sum=sum+i

i=i+2

print("sum","=",sum)

**output:**

enter the number:10

sum = 25

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

**Program:**

n=5

x=1

for i in range(1,6):

for j in range(i):

print(x,end='')

x+=2

print()

**output:**

1

33

555

7777

99999

**III. Pyramid Pattern - Equilateral triangle pattern of star**

**Program:**

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

for i in range(0,n):

for j in range(0,n-i-1):

print(end=" ")

for j in range(0,i+1):

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

print()

**output:**

enter the n:6

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