**NUMBER SERIES - A**

**AIM**

To write a python program to print the number series (0,2,6,12,20,30,47…N)

**PROGRAM**

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

i = 1

while (i<=n):

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

i+=1

**OUTPUT**

Enter Number : 7

0 2 6 12 20 30 42

**NUMBER SERIES – B**

**AIM**

To write a python program to print a number series (0,2,8,14,24,34…N)

**PROGRAM**

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

i = 1

pr = 0

while (i<=n):

if (i%2==0):

pr = pow(i,2)-2

print(pr,end = " ")

else:

pr = pow(i,2)-1

print(pr,end = " ")

i+=1

**OUTPUT**

Enter Number : 7

0 2 8 14 24 34 48

**NUMBER PATTERN – A**

**AIM**

To write a program to print the following number pattern using for loop.

1

22

333

4444

55555

**PROGRAM**

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

row = n

for i in range (row):

for j in range (i):

print(i,end = " ")

print('')

**OUTPUT**

Enter Row : 6

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

**NUMBER PATTERN – B**

**AIM**

To write a program to print simple half pyramid pattern using for loop

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**PROGRAM**

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

row = n

for i in range (row):

for j in range (i):

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

print('')

**OUTPUT**

Enter Row : 6

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**DECIMAL TO BINARY**

**AIM**

To write a program to convert decimal to binary

**PROGRAM**

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

sum = 0

while (n>0):

r = n%2

sum = sum\*10+r

n = n//2

print(sum)

**OUTPUT**

Enter Number : 101

1010011