

NUMBER SERIES - A

AIM

To write a python program to print the number series (0,2,6,12,20,30,42...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

```
*  
**  
***  
****  
*****
```

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

```
*  
**  
***  
****  
*****
```

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