PYTHON RECORD

PROGRAMS ON CONTROL STATEMENTS

1)Number series:   
a)Write a Program to print series 0 2 6 12 20 30 42 ...N.

CODING:

n=int(input("Enter the range of number(Limit):"))

i=1

while i<=n:

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

i+=1

OUTPUT:

Enter the range of number(Limit):7

0 2 6 12 20 30 42

b) Write a Program to print series 0,2,8,14,24,34 ...N.

CODING:

n=int(input("Enter the range of number(Limit):"))

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 the range of number(Limit):7

0 2 8 14 24 34 48

2) Python program to print the following simple number pattern using a for loop.

CODING:

n=5

for num in range(n+1):

for i in range(num):

print(num,end="")

print("\r")

OUTPUT:

1

22

333

4444

55555

3) Simple half pyramid pattern:

CODING:

for i in range(1,6):

print()

for j in range(i):

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

OUTPUT:

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4) Convert Decimal to Binary number

CODING:

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

a=n

b=0;d=0

while(n>0):

r=n%2

b=(b\*10)+r

n=n//2

while(b>0):

r=b%10

b=b//10

d=(d\*10)+r

print("decimal number:",d)

OUTPUT:

enter a number:15

decimal number: 1111