Program :Number series

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):2

0 2

Program:2

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):3

0 2 8

Program :Number Pattern

rows = int(input('Enter the number of rows'))

# outer loop

for i in range(rows):

# nested loop

for j in range(i):

# display number

print(i, end=' ')

# new line after each row

print('')

output

Enter the number of rows2

1

Program :Half Pyramid

rows = int(input("Enter number of rows: "))

for i in range(rows):

for j in range(i+1):

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

print("\n")

output

Enter number of rows: 3

\*

\* \*

\* \* \*

Program :Decimal to Binary

decimal = int(input("Enter a decimal number \n"))

binary = 0

ctr = 0

temp = decimal

while(temp > 0):

binary = ((temp%2)\*(10\*\*ctr)) + binary

temp = int(temp/2)

ctr += 1

print("Binary of {x} is: {y}".format(x=decimal,y=binary))

output

Enter a decimal number

2

Binary of 2 is: 10