1. def stutterWord():

in\_string = input('Enter the Word :')

out\_string = in\_string.replace(in\_string[0:2],((in\_string[0:2]+'... ')\*2)+ in\_string[0:2]) +'?'

print(f'{in\_string} ➞ {out\_string}')

for i in range(3):

stutterWord()

Output:

Enter the Word :incredible

incredible ➞ in... in... incredible?

Enter the Word :enthusiastic

enthusiastic ➞ en... en... enthusiastic?

Enter the Word :outstanding

outstanding ➞ ou... ou... outstanding?

1. import math

def radianToDegree():

in\_num = int(input('Enter the angle in Radians: '))

out\_num = (180/math.pi)\*in\_num

print(f'{in\_num} radian(s) ➞ {out\_num:.1f} degrees')

for x in range(3):

radianToDegree()

Output:

Enter the angle in Radians: 1

1 radian(s) ➞ 57.3 degrees

Enter the angle in Radians: 20

20 radian(s) ➞ 1145.9 degrees

Enter the angle in Radians: 50

50 radian(s) ➞ 2864.8 degrees

1. def checkCurzon():

in\_num = int(input("Enter a number: "))

if (pow(2,in\_num)+1)%((2\*in\_num)+1) == 0:

print(f'{in\_num} is a Curzon Number')

else:

print(f'{in\_num} is Not a Curzon Number')

for x in range(4):

checkCurzon()

Output:

Enter a number: 5

5 is a Curzon Number

Enter a number: 10

10 is Not a Curzon Number

Enter a number: 14

14 is a Curzon Number

Enter a number: 12

12 is Not a Curzon Number

1. import math

def areaOfHexagon():

in\_num = int(input('Enter the side length of a Hexagon: '))

out\_num = ((3\*math.sqrt(3))/2)\*(pow(in\_num,2))

print(f'Area for Hexagon of sidelength {in\_num} ➞ {out\_num:.1f}')

for x in range(3):

areaOfHexagon()

Output:

Enter the side length of a Hexagon: 1

Area for Hexagon of sidelength 1 ➞ 2.6

Enter the side length of a Hexagon: 2

Area for Hexagon of sidelength 2 ➞ 10.4

Enter the side length of a Hexagon: 3

Area for Hexagon of sidelength 3 ➞ 23.4

1. def getBinary():

in\_num = int(input("Enter a Number: "))

out\_num = bin(in\_num).replace('0b','')

print(f'Binary of {in\_num} ➞ {out\_num}')

for x in range(3):

getBinary()

Output:

Enter a Number: 1

Binary of 1 ➞ 1

Enter a Number: 5

Binary of 5 ➞ 101

Enter a Number: 10

Binary of 10 ➞ 1010