Aim: Write a python program to implement Nimgame problem with following conditions: (i)There are 12 tokens (ii) Each player can take upto 3 tokens in each turn (iii)The player who takes the last token wins.

print("Nim game!!\nWe are having 12 tokens")

def getTokens(curTokens):

global tokens

print("How many tokens would you like to take? ", end='')

take = int(input())

if (take < 1 or take > 3):

print("Number must be between 1 and 3.\n")

getTokens(curTokens)

return

tokens = curTokens - take

print('You take',take ,'tokens.')

print(tokens ,'tokens remaining.\n')

def compTurn(curTokens):

global tokens

take = curTokens % 4

tokens = curTokens - take

print ('Computer takes ',take, ' tokens.')

print (tokens,' tokens remaining.\n')

tokens = 12

while (tokens > 0):

getTokens(tokens)

compTurn(tokens)

print("Computer wins!")