```python
#Project 21:
#Your task is to find if it is possible to cut the cake in the below mentioned ways for a given value N.
'''
Given an integer N and cake which can be cut into pieces, each cut should be straight line going from the
center of the cake to its border. Also, the angle between any two cuts must be a positive integer. Two pieces are equal
if their appropriate angles are equal.

The given cake can be cut in following three ways:

# Cut the cake into N equal pieces.
# Cut the cake into N pieces of any size.
# Cut the cake into N pieces such that no two of them are equal.

'''


cakeangle=eval(input("Enter the Angle of the Cake: "))
N=eval(input("Enter Number of cuts: "))
if(cakeangle%N==0):
    print("YES the cake will cut in equal pieces of size:",N)
else:
    print("NO the cake will not cut in equal pieces of size",N)
if(N>cakeangle): #Only when N is greater tha cake angle cake can't be cut into pieces
    print("NO the cake will not cut in any piece of size ",N)
else:
    print("YES the cake will cut in any piece of size ",N)
n=1 # start subratcrting the cake
for i in range(N):
    cakeangle-=n
    n+=1
    if(cakeangle<0):
        print("NO the cake will not cut into %d pieces such that no two of them are equal"%N)
        break
else:
        print("YES the cake will cut into %d pieces such that no two of them are equal"%N)




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