**ASSIGNMENT NO.**

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CLASS: BE COMP-1 ROLL NO.: 402006

PROGRAM:

import json

x=[20,21,22,23,24,25,26,27,28]

n=8

global flag

def Queen(k):

global flag

for i in range(1,n+1):

if (Place(k,i)==True):

x[k]=i;

if(k==n):

if(flag==0):

print("\nSolutions that satisfy the given condition are:\n")

print x[1:n+1]

flag=1

else:

Queen(k+1)

def Place(k,i):

for j in range (1,k):

if((x[j]==i) or (abs(x[j]-i)==abs(j-k))):

return False

return True

data=[]

flag=0

with open('input.json') as f:

data=json.load(f)

if(data["start"]<1 or data["start"]>8):

print "\nInvalid JSON input.\n"

exit()

print "\nGiven condition: First queen is placed in column ",data["start"],".\n"

x[1]=data["start"]

Queen(2)

if(flag==0):

print("\nNo solution satisfying the given conditon is found.\n")

print("\n")