PROJECT NAME :- FUNCTION TO CHECK IF IT IS POSSIBLE TO CUT A CAKE IN FOLLOWING WAYS

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ACKNOWLEDGEMENT

I am Chelshiya a student of LPU and we were entitled to a project that generates a random project to find if it is possible to cut a cake into below mentioned ways for a given value of N . And in this project I would like to be grateful to my teacher "Dr. Harwant singh Arri".

INTRODUCTION

This project deals with the function . Many variables are created and a specific line is given to each of it and to carry that as an output print is used.

SOFTWARE AND HARDWARE OF THE PROJECT

Software:

1.python idle

2.thonny

3.vs code

Hardware:

1.Ram

2.Rom

3.CPU

SCREENSHOT *welcome to the mini project of chelshiya*

```python
def cutCake(n):
    # Case 1
    if(360%n==0):
        print("It is possible to cut the cake into",n,"equal pieces.\n")
    else:
        print("It is not possible to cut the cake into",n,"equal pieces.\n");
    # Case 2
    if(n<=360):
        print("It is possible to cut the cake into",n,"pieces of any size.\n")
    else:
        print("It is not possible to cut the cake into",n,"pieces of any size.\n");
    # Case 3
    if(((n*(n+1))/2)<=360):
        print("It is possible to cut the cake into",n,"pieces such that no two of them are equa
    else:
        print("It is not possible to cut the cake into",n,"pieces such that no two of them are

n=int(input("n:"))
cutCake(n)
print(" thank you !!!")

'''Case 1 will only be possible if 360 is divisible by n.
For Case 2 to be possible,n must be ≤ 360.
For Case 3 to be possible,(n*(n+1))/2 must be ≤ 360.'''
```

INPUT AND OUTPUT

```python
print(" welcome to the mini project of chelsiya:\n\n")

'''Function to check if it is possible to cut the cake in the given way:
1. Cut the cake into N equal pieces.
2. Cut the cake into N pieces of any size.
3. Cut the cake into N pieces such that no two of them are equal.'''

def cutCake(n):
    # Case 1
    if(360%n==0):
        print("It is possible to cut the cake into",n,"equal pieces.\n")
    else:
        print("It is not possible to cut the cake into",n,"equal pieces.\n");
    # Case 2
    if(n<=360):
        print("It is possible to cut the cake into",n,"pieces of any size.\n")
    else:
        print("It is not possible to cut the cake into",n,"pieces of any size.\n");
    # Case 3
    if(((n*(n+1))/2)<=360):
        print("It is possible to cut the cake into",n,"pieces such that no two of them are equa
    else:
        print("It is not possible to cut the cake into",n,"pieces such that no two of them are

n=int(input("n:"))
```