

Advance python Hands-on:-

- ① Bag of chocolates to a queue of people. If we have more chocolates than people. WAP to execute all to given conditions.

Sol.

1. You have a bag of chocolates which you need to distribute to a queue of people. Assuming you have more chocolates than people, write a program that distributes chocolates using the following logic

1. Each person in the queue gets 2 chocolates.

2. If chocolates are still left over after the first iteration of the queue, continue distribution till all chocolates are exhausted or they cannot be distributed any further while conforming to our logic.

Print the total chocolates each person has at the end of this process

Let that i^{th} person = we should find
eg:- and total person = 6

\Rightarrow t. persons

1	2	3	4	5	6
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\Rightarrow t. chocl

let suppose we have 8 chocolates

\Rightarrow in a loop

executing
in a queue

1 st	—	1 st	7 th
2 nd	—	2	
3 rd	—	3	
4 th	—	4	

$$\begin{array}{r} 5 \\ 6 \end{array} - \begin{array}{r} 5 \\ 6 \end{array}$$

⇒ in this case the i^{th} person is 1st person

but according to our condition

⇒ if the chocolates are left, then you should continue the process till the chocolates are exhausted.

⇒ So, for this reason, we won't stop at this 1st person, we will run till our;

$$t_choclate == 0$$

Hence,

	1	-	11	⇒	2 nd won't choco
	2	-	11	⇒	2 nd won't choco

Persons

3	-	1
4	-	1
5	-	1
6	-	1

So, the o/p should print 2nd person as o/p

Note! it's given that, print the total chocolates at the end of this process

⇒ acc to eg 1-2



2-2

3-1

4-1

5-1

6-1