- # Question: Given an integer, check if the given integer is

  Paridrome or not?
  - a number is if that number is some from to right to left and from left to right.

 $lef \pm to right = 121$  $right \pm to lef \pm = 121$ 

121 = 121, Hence Palindrome

234 ---> Not a palindrome

 $lef \pm to right = 234$ right to  $lef \pm = 432$ 

234 != 432 , Not a Palindrome

Solution: find a way to reverse the given integer and compare the reversed number with Original number, if both of them are same then it is a palmolrome number.

## How to reverse on integer?

using a loop at Every iteration

1) get the last digit of original number

last digit = number 10
modulo operator returns last
digit of a number

2104810 = 4

2 construct the integer from right to left using given formula

## reversed = reversed \* 10 + last digit

3 update the original number removing its last digit

number = number/10

// removes last digit of a number

Ex: 
$$241//10 = 24$$
  
 $31208//10 = 3120$ 

At the end, it reversed == given number, it is a falindrome number.

```
def countilities (number):

reversed=0

temp=number

while temp>0:

lastoigit= temp:lo

reversed = revered *10 + lastoigit

temp = temp/lo

if temp== number:

return "paintnome"

ere:
```

return faise

number	temp	last dit	reversed temp	temp >0
2112	2112	2112/2=2	0+10+2=2 2112//10=211	Yes
2112	211	21112=1	2=10+1=21 211/10=21	Yes
2112	21	21%2=1	21*10+1=211 21/10=2	Yes
2112	2	2/2=2	= 2112	not No
		4		er the

"parindrome"

while Loof;