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## Module-2 / Loops-Palindrome Number check.md



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e8200e3 · now



35 lines (31 loc) · 1.1 KB

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# Loops in Python: Palindrome Number Checker

## Aim

To write a Python program that checks whether a given number is a **palindrome** using loops.

## Algorithm

1. Get input from the user and assign it to a variable `num`.
2. Assign the value of `num` to a temporary variable `temp`.
3. Initialize a variable `rev` to 0 (used to store the reversed number).
4. Use a `while` loop to reverse the digits:
  - o While `temp > 0`:
    - `rev = (10 * rev) + temp % 10`
    - `temp = temp // 10`
5. After the loop, compare `rev` with `num`:
  - o If equal, print that the number is a palindrome.
  - o Else, print that it is not a palindrome.



## Program

```
num=int(input())
rev=0
temp=num
while temp>0:
    rev=(10*rev)+temp%10
```



```
temp/=10
if rev==num:
    print("The given number {} is a Palindrome".format(num))
else:
    print("The given number {} is not a palindrome".format(num))
```

## Output

	<b>Input</b>	<b>Expected</b>	<b>Got</b>
✓	121	The given number 121 is a Palindrome	The given number 121 is a Pal:
✓	1234	The given number 1234 is not a palindrome	The given number 1234 is not a

Passed all tests! ✓

## Result

Thus, the Python program that checks whether a given number is a palindrome using loops is created successfully.