

## COM1001 LAB 2 Q2

### Question:

Write a Python program that asks the user to enter a **positive integer**.

Using a **while loop**, determine whether the number is a **palindrome number** or not.

### Explanation:

A **palindrome number** is a number that remains the same when its digits are reversed.

For example:

- 121 → reversed = 121 → Palindrome
- 123 → reversed = 321 → Not palindrome

### Instructions:

- You must use a **while loop** (no string slicing or built-in reverse functions).
- Reverse the number using arithmetic operations.
- Compare the reversed number with the original one.
- Print whether it is a **palindrome** or **not**.

Example Output:

Enter a number: 121

121 is a palindrome number.

Enter a number: 125

125 is not a palindrome number.