Pair Programming Lab 5

In the following exercise, you will be using Python to solve logical problems in pairs.
- **Use the function input() to take input from the user**
- **Use the function print() to display output to the user**
- **For each problem, you should create a file python##.py (## represents the number of the**
- **exercise → for example, 1 or 2a...)**
- **At the end, compress all the files in 1 folder named "Name1Name2Lab5"**

Problem 1:
Create a function that takes a string and checks if it's a palindrome. The function returns true or false. If it returns true, you should print "palindrome", if it returns false, you should print "not palindrome"

Sample Input	**Sample Output**
test	not palindrome
abcdcba	palindrome

Problem 2:
Create a function that generates random number between 1 and 30.
Create another function that takes 2 numbers and checks if they are equal
Create one last function that asks the user to enter a guess and checks if it's true (allow up to 5 tries)

Sample Input	**Sample Output**
Enter your guess: 10	Wrong!
Enter your guess: 20	Wrong!
Enter your guess: 25	Right!

Problem 3:
Write a function that takes a list and returns the largest element in the list.

Sample Input	**Sample Output**
5 1 2 3 4 5	5
7 2 4 9 1 2 1 8	9

Problem 4:
Write a function that takes a list and returns the list reversed.

Sample Input	**Sample Output**
1 2 3 4 5	5 4 3 2 1

Problem 5:
Write a function that takes a list and a number and returns true if the number is present and false if not

Sample Input	**Sample Output**
1 2 3 4 5	

5   true

Problem 6:
Write a function that takes a list and returns the sum of the numbers in the list

Sample Input	**Sample Output**
1 2 3 4 5	15