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In [3]:  #Name: Mohith Dande
         # Part 1: Convert Two Numbers to Binary
         # Let's pick two numbers: 9 and 10

         # Convert to Binary:
         # 9 in binary = 1001
         # 10 in binary = 1010

         # Part 2: Check if Each Binary String is a Palindrome
         # A palindrome reads the same forward and backward.

         # 1001 → reversed = 1001  Yes, it's a palindrome
         # 1010 → reversed = 0101  No, it's not a palindrome

         def is_binary_palindrome(n):
             binary = bin(n)[2:]  # Convert to binary and remove '0b' prefix
             return binary == binary[::-1]  # Check if palindrome

         # Example numbers
         numbers = [9, 10]

         for num in numbers:
             binary = bin(num)[2:]
             result = is_binary_palindrome(num)
             print(f"{num} in binary is {binary} → Palindrome? {'Yes' if result else
```

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9 in binary is 1001 → Palindrome? Yes
10 in binary is 1010 → Palindrome? No
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In [1]: