23D21A05H4-Palindrome conversion Logo STUDENT REPORT Name That Sha 2302 hosha 2302 hos **Roll Number** SAMALA JAHNAVI 23D21A05H4 **EXPERIMENT** PALINDROME CONVERSION Source Code: 23022Ao5x Description Write a program to identify whether the given number N is N = int(input()) palindrome based upon the following operations: def is_palindrome(N): return str(N) == str(N)[::-1] Add the given number and its reverse. def reverse_num(N): return int(str(N)[::-1]) Check whether the obtained sum after the first operation is def find_palindrome(N): a palindrome or not and if not then repeat the above while not is_palindrome(N): operation. reversed_n = reverse_num(N) N =N + reversed_n The given operation will continue until a palindromic return N number is found. Print the resultant palindromic number as print(find_palindrome(N)) the output. Note: Palindrome: A sequence of letters/characters which reads the same backward and forwards. A single letter/character is also considered a palindrome. Input Format: The input consists of a single line: The line contains a single integer denoting N. The input will be read from the STDIN by the candidate Output Format: Print the resultant palindromic number for the given input. The output will be matched to the candidate's output **Sample Input: Sample Output:**

Explanation:

Reverse of 28 is 82

28+82=110

Reverse of 110 is 011

110+11=121

So 121 is a palindrome.

222AOSHA 23D21A RESULT

5 / 5 Test Cases Passed | 100 %