Logo STUDENT REPORT DETAILS 23022A05FH Roll Number Name SAMALA JAHNAVI 23D21A05H4 **EXPERIMENT** Title DETECTING PERFECT NUMBERS Source Code: Description A perfect number is a positive integer that is equal to the n = int(input()) sum of its proper positive divisors, i.e. the sum of its a=[] positive divisors excluding the number itself. for i in range(1,n): if n%i == 0: You are given an integer n. Print '1' if n is a perfect number, a.append(i) if sum(a) == n: else print the sum of the proper divisors of n. print(1) Input Format: else: print(sum(a)) The input consists of a single line: The line contains an integer denoting in. The input will be read from the STDIN by the candidate Output Format: Print "1' if n is a perfect number, else print the sum of the proper divisors of n. The output will be matched to the candidate's output printed on the STDOUT Constraints: 0 < n < 109 Sample Input: Sample Output: 1 Explanation: The proper divisors of 6 are 1,2 and 3 sum= 1+2+3=6 So it is a perfect number RESULT 5 / 5 Test Cases Passed | 100 % . ~ 23~ OSHIN . ~ 23~