

Lab 5

NOTICE: EVERY TASK WILL BE A BASH SCRIPT WITH NAME: Task_XXXX.sh, where XXXX is the last 4 digits of your ID. It is not possible to identify the task otherwise and hence marks will be deducted.

Tasks:

Task 1: Missing number

Given a range from 0 to n, a number is missing. Create a function to find that missing number and echo that number.

Input: 0 3 2

Output: 1

Input: 0 3 1 2 5

Output: 4

Task 2: Factorial

Write a function that takes a number as input and returns its factorial.

Input: 5

Output: 120

Task 3: Palindrome Check

Write a function that checks if a string is a palindrome.

Input: madam

Output: Palindrome

Input: hello

Output: Not Palindrome

Task 4: Armstrong Number Check

Write a function to check if a number is an Armstrong number (sum of cubes of digits = number).

Input: 153

Output: Armstrong Number

Input: 123

Output: Not Armstrong

Task 5:GCD (Greatest Common Divisor)

Write a function that finds the GCD of two numbers.

Input: 12 18

Output: 6