**Lab Task 1**

**1a.** Write a Java program to print 'Hello' on screen and your name on a separate line.

Expected Output :  
Hello  
BS (CS)

public class Exercise1 {

public static void main(String[] args) {

// Print a greeting message to the console

System.out.println("Hello\nBS (CS)");

}

}

**1b.** Write a Java program to input name from user while taking first user name and second user name separately but displace in single line.

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

// Create a Scanner object to read input from the console

Scanner input = new Scanner(System.in);

// Prompt the user to input their first name

System.out.print("Input your first name: ");

String fname = input.next();

// Prompt the user to input their last name

System.out.print("Input your last name: ");

String lname = input.next();

// Output a greeting message with the user's full name

System.out.println();

System.out.println("Hello \n" + fname + " " + lname);

}

}

**2a.** Write a Java program to print the sum of two numbers.  
Test Data:  
74 + 36  
Expected Output :  
110

Soution:

public class Exercise2 {

public static void main(String[] args) {

// Calculate the sum of 24 and 26

int sum = 24 + 26;

// Print the result of the addition

System.out.println(sum);

}

}

**2b.** Java code takes two numbers as input from the user, calculates their sum, and then displays the result

import java.util.Scanner;

public class Main {

public static void main(String[] args)

{

// Create a Scanner object to read input from the user

Scanner input = new Scanner(System.in);

// Prompt the user to input the first number

System.out.print("Input the first number: ");

// Read and store the first number

int num1 = input.nextInt();

// Prompt the user to input the second number

System.out.print("Input the second number: ");

// Read and store the second number

int num2 = input.nextInt();

// Calculate the sum of the two numbers

int sum = num1 + num2;

// Display a blank line for separation

System.out.println();

// Display the sum of the two numbers

System.out.println("Sum: " + sum);

}

}

**3.** Write a Java program to divide two numbers and print them on the screen.  
Test Data :  
50/3  
Expected Output :  
16

public class Exercise3 {

public static void main(String[] args) {

// Calculate the result of the division 50/3

int result = 50 / 3;

// Print the result of the division

System.out.println(result);

}

}

**3b.** Write a Java program that take two takes two integer numbers as input from the user, performs division, and displays the result.

import java.util.Scanner;

public class Main {

public static void main(String[] args)

{

// Create a Scanner object to read input from the user

Scanner input = new Scanner(System.in);

// Prompt the user to input the first number

System.out.print("Input the first number: ");

// Read and store the first number

int a = input.nextInt();

// Prompt the user to input the second number

System.out.print("Input the second number: ");

// Read and store the second number

int b = input.nextInt();

// Calculate the division of a and b

int d = (a / b);

// Display a blank line for separation

System.out.println();

// Display the result of the division

System.out.println("The division of a and b is: " + d);

}

}

**4.** Write a Java program to accept a number and check whether the number is even or not. Prints 1 if the number is even or 0 if odd.  
*Sample Output:*

Input a number: 20

1

import java.util.\*;

public class Exercise49 {

public static void main(String[] args) {

// Create a scanner for user input

Scanner in = new Scanner(System.in);

// Prompt the user to input a number

System.out.print("Input a number: ");

int n = in.nextInt();

// Check if the number is even and print the result

if (n % 2 == 0) {

System.out.println(1); // If the number is even, print 1

} else {

System.out.println(0); // If the number is odd, print 0

}

}

}

**5.** Write a Java program to convert seconds to hours, minutes and seconds.  
Sample Output:

Input seconds: 86399

23:59:59

import java.util.\*;

public class Main {

public static void main(String[] args) {

// Create a Scanner object for user input

Scanner in = new Scanner(System.in);

// Prompt the user to input the total seconds

System.out.print("Input seconds: ");

int seconds = in.nextInt();

// Calculate the hours, minutes, and seconds

int S = seconds % 60; // Calculate the remaining seconds

int H = seconds / 60; // Convert total seconds to minutes

int M = H % 60; // Calculate the remaining minutes

H = H / 60; // Convert total minutes to hours

// Display the time in the format HH:MM:SS

System.out.print(H + ":" + M + ":" + S);

// Print a new line for better formatting

System.out.print("\n");

}

}