List of Practical (With Solution)

Course: BCA

Subject Name and Code: Programming in Java Lab (BCAC BCAC0819)

Year/Semester: II/III

Objective: The objective of this course is that the students will understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc. It will also provide the foundation of good programming skills by discussing key issues to the design of object oriented programming.

```
Experiment 1: (If Else)

Compulsory:
Program 1: WAP to print a message "Hello JAVA".

public class HelloJavaProgram1 {
    public static void main(String[] args) {
        // Print the message "Hello JAVA"
        System.out.println("Hello JAVA");
    }
}
run:
Hello JAVA
BUILD SUCCESSFUL (total time: 0 seconds)
```

Program 2: Write a program to display whether a number is even or odd.

```
import java.util.Scanner;

public class EvenOddChecker {
    public static void main(String[] args) {
        // Create a Scanner object to read input from the user
        Scanner scanner = new Scanner(System.in);

        // Prompt the user to enter a number
        System.out.print("Enter an integer: ");
        int number = scanner.nextInt();

        // Check if the number is even or odd
        if (number % 2 == 0) {
            System.out.println(number + " is even.");
        } else {
                 System.out.println(number + " is odd.");
        }
}
```

```
// Close the scanner
scanner.close();
}
```

Program 3 Write the following program using if else if ladder. Accept an hour from the user and output the following as indicated below. Include the last condition in the else section.

- i) Hour greater than or equal to 0 and less than 12
- ii) Hour greater than or equal to 12 and less than 18
- iii) Hour greater than or equal to 18 and less than 24
- iv) Any other input

"Good Morning"

"Good Afternoon"

"Good Evening"

"Time is out of range"

Solution

```
import java.util.Scanner;
public class TimeGreeting {
  public static void main(String[] args) {
     // Create a Scanner object to read input from the user
     Scanner scanner = new Scanner(System.in);
     // Prompt the user to enter an hour
     System.out.print("Enter the hour (0-23): ");
     int hour = scanner.nextInt();
     // Determine the appropriate greeting based on the hour
     if (hour \geq 0 \&\& hour < 12) {
       System.out.println("Good Morning");
     } else if (hour >= 12 && hour < 18) {
       System.out.println("Good Afternoon");
     } else if (hour >= 18 && hour < 24) {
       System.out.println("Good Evening");
       System.out.println("Time is out of range");
     }
     // Close the scanner
     scanner.close();
  }
```

Additional Programs:

Program 4: A student receives marks in three subjects. The program will calculate the total marks, average marks, and determine the grade based on the average:

```
Average \geq 90: Grade A
Average \geq 80 and \leq 90: Grade B
Average \geq 70 and \leq 80: Grade C
Average \geq 60 and \leq 70: Grade D
Average < 60: Grade
import java.util.Scanner;
public class StudentGradeCalculator {
  public static void main(String[] args) {
     // Create a Scanner object to read input from the user
     Scanner scanner = new Scanner(System.in);
     // Prompt the user to enter marks for three subjects
     System.out.print("Enter marks for Subject 1: ");
     double marks1 = scanner.nextDouble();
     System.out.print("Enter marks for Subject 2: ");
     double marks2 = scanner.nextDouble();
     System.out.print("Enter marks for Subject 3: ");
     double marks3 = scanner.nextDouble();
     // Calculate total marks and average
     double totalMarks = marks1 + marks2 + marks3;
     double averageMarks = totalMarks / 3;
     // Determine the grade based on the average marks
     char grade;
     if (averageMarks \geq 90) {
       grade = 'A';
     \} else if (averageMarks \geq 80) {
       grade = 'B';
     } else if (averageMarks \geq 70) {
       grade = 'C';
     } else if (averageMarks \geq = 60) {
       grade = 'D';
     } else {
       grade = 'F';
```

```
// Display the results
    System.out.println("Total Marks: " + totalMarks);
    System.out.println("Average Marks: " + averageMarks);
    System.out.println("Grade: " + grade);
    // Close the scanner
    scanner.close();
  }
}
Experiment 2: Nested If Else
Compulsory:
Program 1: : WAP to find maximum of three numbers
import java.util.Scanner;
public class MaxOfThreeNumbers {
  public static void main(String[] args) {
    // Create a Scanner object to read input from the user
    Scanner scanner = new Scanner(System.in);
    // Prompt the user to enter three numbers
    System.out.print("Enter the first number: ");
    double num1 = scanner.nextDouble();
    System.out.print("Enter the second number: ");
    double num2 = scanner.nextDouble();
    System.out.print("Enter the third number: ");
    double num3 = scanner.nextDouble();
    // Find the maximum of the three numbers
    double max;
    if (num1 \ge num2 && num1 \ge num3) {
       max = num1;
    } else if (num2 >= num1 && num2 >= num3) {
       max = num2;
     } else {
```

```
max = num3;
     }
    // Display the result
    System.out.println("The maximum of the three numbers is: " + max);
    // Close the scanner
    scanner.close();
  }
}
// program that finds the maximum of three numbers using nested if-else statements:
import java.util.Scanner;
public class MaxOfThreeNumbersNestedIfElse {
  public static void main(String[] args) {
    // Create a Scanner object to read input from the user
    Scanner scanner = new Scanner(System.in);
    // Prompt the user to enter three numbers
    System.out.print("Enter the first number: ");
    double num1 = scanner.nextDouble();
    System.out.print("Enter the second number: ");
    double num2 = scanner.nextDouble();
    System.out.print("Enter the third number: ");
    double num3 = scanner.nextDouble();
    // Find the maximum of the three numbers using nested if-else
    double max;
    if (num1 \ge num2) {
       // num1 is greater than or equal to num2
       if (num1 \ge num3) {
         // num1 is also greater than or equal to num3
         max = num1;
       } else {
         // num1 is greater than or equal to num2 but less than num3
         max = num3;
     } else {
       // num1 is less than num2
```

```
if (num2 \ge num3) {
         // num2 is greater than or equal to num3
         max = num2;
       } else {
         // num2 is less than num3
         max = num3;
       }
     }
     // Display the result
     System.out.println("The maximum of the three numbers is: " + max);
     // Close the scanner
     scanner.close();
  }
}
Program 2: A movie theatre has the following ticket pricing rules:
   Children under 12 years old pay $5.
   Seniors 65 years and older pay $7.
   Regular adults (12-64 years old) pay $10.
   Members get a $2 discount on all ticket prices.
   We'll prompt the user to input their age and whether they have a membership card. Based
   on this input, the program will determine and print the ticket price.
Solution
import java.util.Scanner;
public class MovieTicketPrice {
  public static void main(String[] args) {
     Scanner scanner = new Scanner(System.in);
     // Get the age of the customer
     System.out.print("Enter your age: ");
     int age = scanner.nextInt();
     // Get the membership status of the customer
     System.out.print("Do you have a membership card? (yes/no): ");
     String membership = scanner.next();
     // Initialize the ticket price
     double ticketPrice = 0.0;
     // Determine the ticket price based on age
     if (age < 12) {
```

```
ticketPrice = 5.0;
     } else if (age \geq 65) {
       ticketPrice = 7.0;
     } else {
       ticketPrice = 10.0;
     // Apply discount if the customer has a membership card
     if (membership.equalsIgnoreCase("yes")) {
       ticketPrice -= 2.0;
     // Display the final ticket price
     System.out.println("Your ticket price is: $" + ticketPrice);
     // Close the scanner
     scanner.close();
}
run:
Enter your age: 34
Do you have a membership card? (yes/no): yes
Your ticket price is: $8.0
BUILD SUCCESSFUL (total time: 5 seconds)
Program3: Create a program using switch case statement to identify the day of the week.
import java.util.Scanner;
public class DayOfWeek {
  public static void main(String[] args) {
     // Create a Scanner object to read input from the user
     Scanner scanner = new Scanner(System.in);
     // Prompt the user to enter a number (1-7)
     System.out.print("Enter a number (1-7) to find the day of the week: ");
     int dayNumber = scanner.nextInt();
     // Identify the day of the week using a switch statement
     String dayName;
     switch (dayNumber) {
       case 1:
          dayName = "Monday";
```

```
break;
      case 2.
         dayName = "Tuesday";
         break:
      case 3:
         dayName = "Wednesday";
         break;
      case 4:
         dayName = "Thursday";
         break;
      case 5:
         dayName = "Friday";
         break;
      case 6:
         dayName = "Saturday";
         break;
      case 7:
         dayName = "Sunday";
         break;
      default:
         dayName = "Invalid number. Please enter a number between 1 and 7.";
         break;
    }
    // Display the result
    System.out.println("Day of the week: " + dayName);
    // Close the scanner
    scanner.close();
  }
}
```

Additional Programs:

Program3: WAP to implement that performs basic arithmetic operations (addition, subtraction, multiplication, division) based on user input. use switch to select the arithmetic operation import java.util.Scanner;

```
public class SimpleCalculator {
  public static void main(String[] args) {
     Scanner scanner = new Scanner(System.in);
     System.out.println("Enter first number: ");
     double num1 = scanner.nextDouble();
```

```
System.out.println("Enter second number: ");
     double num2 = scanner.nextDouble();
     System.out.println("Choose an operation: +, -, *, /");
     char operator = scanner.next().charAt(0);
     double result;
     switch (operator) {
       case '+':
         result = num1 + num2;
         break;
       case '-':
         result = num1 - num2;
         break;
       case '*':
         result = num1 + num2;
         break;
       case '/':
         if (num2 != 0) {
            result = num1 / num2;
          } else {
            System.out.println("Division by zero is not allowed.");
            return;
         break;
       default:
         System.out.println("Invalid operator");
         return;
     }
     System.out.println("The result is: " + result);
  }
Experiment 3: Simple and Nested Loop
Compulsory:
Program1: Write a Program in Java to Calculate the Factorial of an Integer using a for loop
import java.util.Scanner;
public class FactorialCalculator3 {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
     // Prompt user to enter a number
     System.out.print("Enter a number to calculate its factorial: ");
```

```
int number = scanner.nextInt();

// Calculate the factorial
long factorial = 1;
for (int i = 1; i <= number; i++) {
    factorial *= i;
}

// Print the factorial
System.out.println("The factorial of " + number + " is " + factorial);

// Close the scanner
scanner.close();
}

run:
Enter a number to calculate its factorial: 5
The factorial of 5 is 120
BUILD SUCCESSFUL (total time: 6 seconds)</pre>
```

Program 2: You are tasked with developing a program that simulates a login system. The user is given three attempts to enter the correct password (In integer format eg. 4545). If the user enters the correct password within three attempts, they are granted access. If the user fails to enter the correct password in three attempts, they are locked out.

```
import java.util.Scanner;
public class LoginSystem {
  public static void main(String[] args) {
    // Define the correct password
    final int CORRECT PASSWORD = 4545;
    // Create a Scanner object to read input from the user
    Scanner scanner = new Scanner(System.in);
    // Variable to track the number of attempts
    int attempts = 0:
    boolean accessGranted = false;
    // Allow the user up to 3 attempts to enter the correct password
    while (attempts < 3) {
       // Prompt the user to enter the password
       System.out.print("Enter password: ");
       int enteredPassword = scanner.nextInt();
       // Check if the entered password is correct
       if (enteredPassword == CORRECT PASSWORD) {
```

```
accessGranted = true;
         break;
       } else {
         // Increment the number of attempts
         attempts++;
          System.out.println("Incorrect password. You have " + (3 - attempts) + " attempts
left.");
     // Display the result based on whether access was granted
     if (accessGranted) {
       System.out.println("Access granted.");
     } else {
       System.out.println("Access denied. You have been locked out.");
     // Close the scanner
     scanner.close();
Additional Programs:
Program 3: WAP to display table of a number in a format n x i=m
import java.util.Scanner;
public class MultiplicationTable {
  public static void main(String[] args) {
     // Create a Scanner object to read input from the user
     Scanner scanner = new Scanner(System.in);
     // Prompt the user to enter a number
     System.out.print("Enter a number to display its multiplication table: ");
     int number = scanner.nextInt();
     // Display the multiplication table
     System.out.println("Multiplication table for " + number + ":");
     for (int i = 1; i \le 10; i++) {
       int result = number * i;
       System.out.println(number + " x " + i + " = " + result);
     }
     // Close the scanner
     scanner.close();
```

```
}
Program 4: WAP to find sum of digits of a number
import java.util.Scanner;
public class SumOfDigits {
  public static void main(String[] args) {
     // Create a Scanner object to read input from the user
     Scanner scanner = new Scanner(System.in);
     // Prompt the user to enter a number
     System.out.print("Enter an integer: ");
     int number = scanner.nextInt();
     // Initialize sum to 0
     int sum = 0;
     // Make the number positive if it is negative
     number = Math.abs(number);
     // Calculate the sum of the digits
     while (number > 0) {
       // Extract the last digit of the number
       int digit = number % 10;
       // Add the digit to the sum
       sum += digit;
       // Remove the last digit from the number
       number = 10;
     }
     // Display the result
    System.out.println("Sum of the digits: " + sum);
     // Close the scanner
     scanner.close();
  }
}
Program 5: WAP to implement type conversion in java.
public class TypeConversionDemo {
  public static void main(String[] args) {
     // Implicit Type Conversion (Widening Conversion)
     int intValue = 100;
     double doubleValue = intValue; // int is automatically converted to double
```

```
System.out.println("Implicit Conversion:");
    System.out.println("Integer value: " + intValue);
    System.out.println("Double value after implicit conversion: " + doubleValue);
    // Explicit Type Conversion (Narrowing Conversion)
    doubleValue = 123.456;
    intValue = (int) doubleValue; // double is explicitly converted to int
    System.out.println("\nExplicit Conversion:");
    System.out.println("Double value: " + doubleValue);
    System.out.println("Integer value after explicit conversion: " + intValue);
    // Converting String to Numeric Types
    String numberString = "2024";
    int number = Integer.parseInt(numberString); // String to int
    System.out.println("\nString to Numeric Conversion:");
    System.out.println("String value: " + numberString);
    System.out.println("Integer value after conversion: " + number);
    // Converting Numeric Types to String
    int another Number = 1234;
    String anotherNumberString = Integer.toString(anotherNumber); // int to String
    System.out.println("\nNumeric to String Conversion:");
    System.out.println("Integer value: " + anotherNumber);
    System.out.println("String value after conversion: " + anotherNumberString);
  }
Experiment 4: Patterns
Compulsory:
Program 1: Using For....Loop display the following pattern:
               **
public class PatternDisplay {
  public static void main(String[] args) {
    // Number of rows for the pattern
    int rows = 5;
    // Loop to iterate through each row
```

```
for (int i = 1; i \le rows; i++) {
       // Loop to print stars in each row
       for (int j = 1; j \le i; j++) {
          System.out.print("*");
       // Move to the next line after printing stars in a row
       System.out.println();
  }
Program 2: WAP to print the pattern
11111
12111
11311
11141
11115
public class PatternPrint {
  public static void main(String[] args) {
     // Number of rows and columns for the pattern
     int size = 5;
     // Loop to iterate through each row
     for (int i = 0; i < size; i++) {
       // Loop to print each column in the current row
       for (int j = 0; j < size; j++) {
          // Print '1' except for the diagonal and last column
          if (i == j) {
            System.out.print((i + 1)); // Print 1-based index of the row
          } else {
            System.out.print("1");
       // Move to the next line after printing all columns in a row
       System.out.println();
  }
Additional Programs:
Program3: WAP to print the pattern
11111
12111
12311
12341
12345
```

```
public class PatternPrint {
  public static void main(String[] args) {
     // Number of rows and columns for the pattern
     int size = 5;
     // Loop to iterate through each row
     for (int i = 1; i \le size; i++) {
       // Loop to print each column in the current row
       for (int j = 1; j \le size; j++) {
          // Print numbers up to the current row index or 1
          if (i \le i)
             System.out.print(j);
          } else {
             System.out.print("1");
       // Move to the next line after printing all columns in a row
       System.out.println();
  }
Program 4: WAP to print the pattern
#####
$####
$$###
$$$##
$$$$#
public class PatternPrint {
  public static void main(String[] args) {
     // Number of rows for the pattern
     int rows = 4;
     // Loop to iterate through each row
     for (int i = 1; i \le rows; i++) {
       // Print '$' characters for each row
       for (int j = 1; j < i; j++) {
          System.out.print("$");
        }
       // Print '#' characters for each row
       for (int k = i; k < rows; k++) {
          System.out.print("#");
        }
       // Move to the next line after printing all characters in the row
```

```
System.out.println();
     }
  }
Experiment 5: Array
Compulsory:
Program 1: WAP to read and print an array. Also find greatest and smallest element in array.
import java.util.Scanner;
public class ArrayOperations {
  public static void main(String[] args) {
     // Create a Scanner object to read input from the user
     Scanner scanner = new Scanner(System.in);
     // Prompt the user to enter the number of elements in the array
     System.out.print("Enter the number of elements in the array: ");
     int size = scanner.nextInt();
     // Initialize the array with the specified size
     int[] array = new int[size];
     // Read the elements of the array from the user
     System.out.println("Enter " + size + " elements:");
     for (int i = 0; i < size; i++) {
       array[i] = scanner.nextInt();
     }
     // Print the elements of the array
     System.out.println("Array elements:");
     for (int i = 0; i < size; i++) {
       System.out.print(array[i] + " ");
     System.out.println();
     // Initialize variables to find the smallest and largest elements
     int smallest = array[0];
     int largest = array[0];
```

// Find the smallest and largest elements in the array

```
for (int i = 1; i < size; i++) {
    if (array[i] < smallest) {
        smallest = array[i];
    }
    if (array[i] > largest) {
        largest = array[i];
    }
}

// Display the smallest and largest elements
System.out.println("Smallest element in the array: " + smallest);
System.out.println("Largest element in the array: " + largest);

// Close the scanner
scanner.close();
}
```

Program 2 You're developing a simple scoring system for a cricket match. The match involves a single over (6 balls) and you're required to record the runs scored on each ball. The system should also calculate the total runs scored in the over and determine if the over included any dot balls (a ball where no runs are scored).

Task:

Create a 1-dimensional array to store the runs scored on each of the 6 balls in the over.

Calculate the total runs scored in the over.

Count the number of dot balls (balls where zero runs were scored).

Determine the highest run scored on a single ball.

Runs scored in the over (ball by ball):

```
Ball 1: 1 run
Ball 2: 4 runs
Ball 3: 0 runs (dot ball)
Ball 4: 6 runs
Ball 5: 2 runs
Ball 6: 0 runs (dot ball)
public class CricketScoringSystem {
    public static void main(String[] args) {
        // Step 1: Initialize the array with runs scored on each ball int[] runsPerBall = {1, 4, 0, 6, 2, 0};

    // Step 2: Calculate the total runs scored in the over int totalRuns = 0;
```

```
for (int runs : runsPerBall) {
       totalRuns += runs;
     // Step 3: Count the number of dot balls
     int dotBalls = 0;
     for (int runs : runsPerBall) {
       if (runs == 0) {
          dotBalls++;
       }
     }
     // Step 4: Determine the highest run scored on a single ball
     int highestRun = runsPerBall[0];
     for (int runs : runsPerBall) {
       if (runs > highestRun) {
          highestRun = runs;
       }
     // Output the results
     System.out.println("Total runs scored in the over: " + totalRuns);
     System.out.println("Number of dot balls: " + dotBalls);
     System.out.println("Highest run scored on a single ball: " + highestRun);
  }
Additional Programs:
Program 3: Write a program to search an element in an array.
import java.util.Scanner;
public class ArraySearch {
  public static void main(String[] args) {
     // Create a Scanner object to read input from the user
     Scanner scanner = new Scanner(System.in);
     // Prompt the user to enter the number of elements in the array
     System.out.print("Enter the number of elements in the array: ");
     int size = scanner.nextInt();
     // Initialize the array with the specified size
     int[] array = new int[size];
```

```
// Read the elements of the array from the user
     System.out.println("Enter " + size + " elements:");
     for (int i = 0; i < size; i++) {
       array[i] = scanner.nextInt();
     }
     // Prompt the user to enter the element to search for
     System.out.print("Enter the element to search for: ");
     int searchElement = scanner.nextInt();
     // Search for the element in the array
     boolean found = false;
     int position = -1;
     for (int i = 0; i < size; i++) {
       if (array[i] == searchElement) 
          found = true;
          position = i;
          break;
       }
     }
     // Display the result
     if (found) {
       System.out.println("Element " + searchElement + " is present at index " + position +
".");
     } else {
       System.out.println("Element " + searchElement + " is not present in the array.");
     }
     // Close the scanner
     scanner.close();
  }
}
Program 4: Write a program to sort an array using bubble sort.
import java.util.Scanner;
public class BubbleSortExample {
  public static void main(String[] args) {
     // Create a Scanner object to read input from the user
```

```
Scanner scanner = new Scanner(System.in);
  // Prompt the user to enter the number of elements in the array
  System.out.print("Enter the number of elements in the array: ");
  int size = scanner.nextInt();
  // Initialize the array with the specified size
  int[] array = new int[size];
  // Read the elements of the array from the user
  System.out.println("Enter " + size + " elements:");
  for (int i = 0; i < size; i++) {
     array[i] = scanner.nextInt();
  }
  // Perform bubble sort
  bubbleSort(array);
  // Print the sorted array
  System.out.println("Sorted array:");
  for (int i = 0; i < size; i++) {
     System.out.print(array[i] + " ");
  System.out.println();
  // Close the scanner
  scanner.close();
// Method to perform bubble sort
public static void bubbleSort(int[] array) {
  int n = array.length;
  boolean swapped;
  // Loop through all array elements
  for (int i = 0; i < n - 1; i++) {
     swapped = false;
     // Compare each pair of adjacent elements
     for (int j = 0; j < n - i - 1; j++) {
       if (array[j] > array[j + 1]) {
          // Swap if elements are in the wrong order
          int temp = array[j];
          array[j] = array[j + 1];
```

}

```
array[j + 1] = temp;
            swapped = true;
          }
       // If no elements were swapped, the array is sorted
       if (!swapped) {
          break;
  }
Program 5: WAP to read and print a matrix
import java.util.Scanner;
public class MatrixOperations {
  public static void main(String[] args) {
     // Create a Scanner object to read input from the user
     Scanner scanner = new Scanner(System.in);
     // Prompt the user to enter the number of rows and columns
     System.out.print("Enter the number of rows: ");
     int rows = scanner.nextInt();
     System.out.print("Enter the number of columns: ");
     int columns = scanner.nextInt();
     // Initialize the matrix with the specified rows and columns
     int[][] matrix = new int[rows][columns];
     // Read the elements of the matrix from the user
     System.out.println("Enter the elements of the matrix:");
     for (int i = 0; i < rows; i++) {
       for (int j = 0; j < \text{columns}; j++) {
          System.out.print("Element [" + i + "][" + j + "]:");
          matrix[i][j] = scanner.nextInt();
     }
     // Print the matrix
     System.out.println("Matrix:");
     for (int i = 0; i < rows; i++) {
       for (int j = 0; j < \text{columns}; j++) {
```

```
System.out.print(matrix[i][j] + " ");
       System.out.println(); // Move to the next line after printing a row
     // Close the scanner
     scanner.close();
  }
}
Program 6: WAP to find sum of two matrices
import java.util.Scanner;
public class MatrixSum {
  public static void main(String[] args) {
     Scanner scanner = new Scanner(System.in);
     // Prompt the user to enter the number of rows and columns
     System.out.print("Enter the number of rows: ");
     int rows = scanner.nextInt();
    System.out.print("Enter the number of columns: ");
     int columns = scanner.nextInt();
     // Initialize matrices with the specified rows and columns
     int[][] matrix1 = new int[rows][columns];
     int[][] matrix2 = new int[rows][columns];
     int[][] sumMatrix = new int[rows][columns];
     // Read elements of the first matrix
     System.out.println("Enter the elements of the first matrix:");
     readMatrix(scanner, matrix1, rows, columns);
    // Read elements of the second matrix
     System.out.println("Enter the elements of the second matrix:");
     readMatrix(scanner, matrix2, rows, columns);
     // Compute the sum of the two matrices
     for (int i = 0; i < rows; i++) {
       for (int j = 0; j < \text{columns}; j++) {
          sumMatrix[i][j] = matrix1[i][j] + matrix2[i][j];
```

```
}
    // Display the resulting matrix
     System.out.println("Sum of the two matrices:");
     printMatrix(sumMatrix, rows, columns);
     // Close the scanner
     scanner.close();
  }
  // Method to read matrix elements from the user
  public static void readMatrix(Scanner scanner, int[][] matrix, int rows, int columns) {
     for (int i = 0; i < rows; i++) {
       for (int j = 0; j < \text{columns}; j++) {
          System.out.print("Element ["+i+"]["+j+"]:");
          matrix[i][j] = scanner.nextInt();
  }
  // Method to print matrix
  public static void printMatrix(int[][] matrix, int rows, int columns) {
     for (int i = 0; i < rows; i++) {
       for (int j = 0; j < \text{columns}; j++) {
          System.out.print(matrix[i][j] + " ");
       System.out.println();
  }
}
Experiment 6: Strings
Compulsory:
Program1: Write a Java program that will accept command-line arguments and display the
same.
public class CommandLineArgs {
  public static void main(String[] args) {
     // Check if there are any command-line arguments
    if (args.length == 0) {
       System.out.println("No command-line arguments provided.");
```