1. Maximum Subarray Sum – Kadane's Algorithm:

```
import java.util.Scanner;
    public class max_subarray_sum {
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            int length;
            System.out.print("Enter the length: ");
            length = scanner.nextInt();
11
            int[] nums = new int[length];
12
            System.out.print("Enter the array: ");
13
            for (int i = 0; i < length; i++) {
                nums[i] = scanner.nextInt();
14
15
            }
17
            int currSum = nums[0];
            int maxSum = nums[0];
18
19
            for (int i = 1; i < length; i++) {</pre>
21
                currSum = Math.max(currSum + nums[i], nums[i]);
                maxSum = Math.max(maxSum, currSum);
22
23
25
            System.out.printf("Maximum subarray sum: %d\n", maxSum);
            scanner.close();
        }
29
   }
```

```
PS D:\Professional\Programming\Java> cd
ubarray_sum }
Enter the length: 7
Enter the array: 2 3 -8 7 -1 2 3
Maximum subarray sum: 11
PS D:\Professional\Programming\Java>
```

2. Maximum Product Subarray:

```
import java.util.Scanner;
public class max_subarray_product {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int length;
        System.out.print("Enter the length: ");
        length = scanner.nextInt();
        int[] nums = new int[length];
        System.out.print("Enter the array: ");
        for (int i = 0; i < length; i++) {</pre>
            nums[i] = scanner.nextInt();
        int maxProduct = nums[0];
        int minProduct = nums[0];
        int result = nums[0];
        for (int i = 1; i < nums.length; i++) {</pre>
             if (nums[i] == 0) {
                maxProduct = 1;
                minProduct = 1;
            if (nums[i] < 0) {</pre>
                 int temp = maxProduct;
                 maxProduct = minProduct;
                minProduct = temp;
            maxProduct = Math.max(nums[i], maxProduct * nums[i]);
            minProduct = Math.min(nums[i], minProduct * nums[i]);
            result = Math.max(result, maxProduct);
        System.out.printf("Maximum subarray product: %d\n", result);
        scanner.close();
```

```
PS D:\Professional\Programming\Java>
ax_subarray_product }
Enter the length: 6
Enter the array: -2 6 -3 -10 0 2
Maximum subarray product: 180
```

3. Search in a rotated sorted array:

```
import java.util.Scanner;
public class search_rotated_sorted_array {
    private static int binarySearch(int[] nums, int left, int right, int target) {
        if (left > right) {
        int mid = (int) (left + right) / 2;
        if (nums[mid] == target) {
            return mid;
        } else {
           int leftSide = binarySearch(nums, left, mid - 1, target);
            int rightSide = binarySearch(nums, mid + 1, right, target);
            if (leftSide != -1) {
               return leftSide;
                return rightSide;
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int length;
        System.out.print("Enter the length: ");
        length = scanner.nextInt();
        int[] nums = new int[length];
        System.out.print("Enter the array: ");
        for (int i = 0; i < length; i++) {</pre>
            nums[i] = scanner.nextInt();
        int target;
        System.out.print("Enter the target: ");
        target = scanner.nextInt();
        int index = binarySearch(nums, 0, length - 1, target);
        if (index == -1) {
            System.out.println("Target not found: -1");
            System.out.printf("Target found at index: %d\n", index);
        scanner.close();
```

```
PS D:\Professional\Programming\Java> cd
rch_rotated_sorted_array.java } ; if ($?
Enter the length: 7
Enter the array: 4 5 6 7 0 1 2
Enter the target: 0
Target found at index: 4
PS D:\Professional\Programming\Java>
```

4. Container with Most Water:

```
import java.util.Scanner;
public class container_most_water {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int length;
        System.out.print("Enter the length: ");
        length = scanner.nextInt();
        int[] nums = new int[length];
        System.out.print("Enter the array: ");
        for (int i = 0; i < length; i++) {</pre>
            nums[i] = scanner.nextInt();
        int left = 0, right = length - 1, result = Integer.MIN_VALUE;
        while (left < right) {</pre>
            int width = right - left;
            int height = Math.min(nums[left], nums[right]);
            result = Math.max(result, width * height);
            if (nums[left] <= nums[right]) {</pre>
                 left += 1;
                 right -= 1;
        System.out.printf("Area of the container with most water: %d\n", result);
        scanner.close();
```

```
PS D:\Professional\Programming\Java> cd "d: ontainer_most_water }
Enter the length: 5
Enter the array: 3 1 2 4 5
Area of the container with most water: 12
PS D:\Professional\Programming\Java>
```

5. Factorial of a large number:

```
import java.math.BigInteger;
    import java.util.Scanner;
    public class factorial_large_number {
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            long input;
            System.out.print("Enter the number: ");
            input = scanner.nextLong();
11
12
            BigInteger result = BigInteger.ONE;
13
14
            for (long i = 2; i \leftarrow input; i++) {
15
                BigInteger bigint = new BigInteger(Long.toString(i));
                result = result.multiply(bigint);
17
            }
            System.out.printf("Factorial of %d is %s", input, result);
21
            scanner.close();
22
23
24
```

6. Trapping Rain Water:

```
import java.util.Scanner;
    public class trapping_rainwater {
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            int length;
            System.out.print("Enter the length: ");
            length = scanner.nextInt();
11
            int[] array = new int[length];
            System.out.print("Enter the heights of the bars: ");
12
13
            for (int i = 0; i < length; i++) {</pre>
                 array[i] = scanner.nextInt();
14
            }
15
17
            int leftMax = array[0];
            int rightMax = array[length - 1];
19
            int lpointer = 1;
            int rpointer = length - 2;
21
            int water = 0;
22
23
            while (lpointer <= rpointer) {</pre>
                if (leftMax <= rightMax) {</pre>
                     water += Math.max(leftMax - array[lpointer], 0);
                     leftMax = Math.max(leftMax, array[lpointer]);
27
                     lpointer += 1;
                 } else {
                     water += Math.max(rightMax - array[rpointer], 0);
                     rightMax = Math.max(rightMax, array[rpointer]);
31
                     rpointer -= 1;
                 }
            }
34
            System.out.printf("Amount of water stored: %d", water);
            scanner.close();
        }
    }
```

```
0c7\bin' 'trapping_rainwater'
Enter the length: 5
Enter the heights of the bars: 3 0 2 0 4
Amount of water stored: 7
PS D:\Professional\Programming\Java>
```

7. Chocolate Distribution Problem:

```
import java.util.Arrays;
import java.util.Scanner;
public class chocolate_distribution {
  public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int length;
        System.out.print("Enter the length: ");
        length = scanner.nextInt();
        int[] chocolates = new int[length];
        System.out.print("Enter the packets: ");
        for (int i = 0; i < length; i++) {</pre>
            chocolates[i] = scanner.nextInt();
        int students;
        System.out.print("Enter the number of students: ");
        students = scanner.nextInt();
        Arrays.sort(chocolates);
        int left = 0, right = students - 1;
        int diff = Integer.MAX_VALUE;
        if (length < students) {</pre>
            System.out.println("Not enough chocolates");
        } else {
            while (right < length) {</pre>
                diff = Math.min(chocolates[right] - chocolates[left], diff);
                right++;
                left++;
        System.out.printf("Minimized difference: %d", diff);
        scanner.close();
```

```
PS D:\Professional\Programming\Java> & ionMessages' '-cp' 'C:\Users\venka\AppDar Oc7\bin' 'chocolate_distribution'
Enter the length: 7
Enter the packets: 7 3 2 4 9 12 56
Enter the number of students: 3
Minimized difference: 2
PS D:\Professional\Programming\Java>
```

8. Merge Overlapping Intervals:

```
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;
import java.util.Stack;
class Interval {
   int start;
    int end;
    Interval(int start_, int end_) {
        start = start_;
        end = end_;
public class merge_overlapping_intervals {
   public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
        int length;
        System.out.print("Enter the number of intervals: ");
        length = scanner.nextInt();
        List<Interval> intervals = new ArrayList<>();
        for (int i = 0; i < length; i++) {</pre>
            int end = scanner.nextInt();
            intervals.add(new Interval(start, end));
           if (a.start != b.start) {
                return a.start - b.start;
                return a.end - b.end;
        Stack<Interval> stack = new Stack<>();
        for (Interval interval : intervals) {
           if (stack.empty()) {
                Interval last = stack.pop();
                    int newStart = Math.min(last.start, interval.start);
                     int newEnd = Math.max(last.end, interval.end);
                    stack.push(new Interval(newStart, newEnd));
                    stack.push(last);
                     stack.push(interval);
        System.out.println("Final intervals: ");
        for (Interval interval : list) {
            System.out.println(interval.start + " " + interval.end);
        scanner.close();
```

```
PS D:\Professional\Programming\Java> & 
ionMessages' '-cp' 'C:\Users\venka\AppDat
0c7\bin' 'merge_overlapping_intervals'
Enter the number of intervals: 4
1 3
2 4
6 8
9 10
Final intervals:
1 4
6 8
9 10
PS D:\Professional\Programming\Java>
```

9. A Boolean Matrix Question:

```
import java.util.HashSet;
import java.util.Scanner;
import java.util.Set;
public class boolean_matrix_question {
    public static void main(String[] args) {
         Scanner scanner = new Scanner(System.in);
         int rows, cols;
         System.out.print("Enter the number of rows: ");
         System.out.print("Enter the number of columns: ");
        int[][] matrix = new int[rows][cols];
System.out.println("Enter the matrix: ");
         for (int i = 0; i < rows; i++) {
    System.out.printf("Row %d: ", i + 1);
    for (int j = 0; j < cols; j++) {</pre>
                 matrix[i][j] = scanner.nextInt();
         Set<Integer> changeRows = new HashSet<>();
         Set<Integer> changeCols = new HashSet<>();
        changeRows.add(i);
                       changeCols.add(j);
         for (int row : changeRows) {
   for (int i = 0; i < cols; i++) {</pre>
                  matrix[row][i] = 1;
         for (int col : changeCols) {
             for (int i = 0; i < rows; i++) {
                  matrix[i][col] = 1;
         System.out.println("\nResult matrix:");
         for (int i = 0; i < rows; i++) {
    for (int j = 0; j < cols; j++) {
                  System.out.print(matrix[i][j] + " ");
              System.out.println();
```

```
PS D:\Professional\Programming\Java> & 'C:\PionMessages' '-cp' 'C:\Users\venka\AppData\Ro 0c7\bin' 'boolean_matrix_question'
Enter the number of rows: 3
Enter the number of columns: 6
Enter the matrix:
Row 1: 1 0 0 0 0 0
Row 2: 0 0 0 0 0 0
Row 3: 0 0 0 0 1 0

Result matrix:
1 1 1 1 1
1 0 0 0 1 0
1 1 1 1 1
PS D:\Professional\Programming\Java>
```

10. Spiral Matrix:

```
* Test Cases:
 * 1. Row matrix
 * 2. Column matrix
 * 4. m == n > 2 square matrix
 * 5. m > n rectangle matrix
 * 6. m < n rectangle matrix
import java.util.ArrayList;
import java.util.List;
public class spiral_matrix {
    class Solution {
        public List<Integer> spiralOrder(int[][] matrix) {
            int rows = matrix.length;
            int columns = matrix[0].length;
            int rowStart = 0;
            int rowEnd = matrix.length - 1;
            int colStart = 0;
            int colEnd = matrix[0].length - 1;
            int rowLimit = (int) rows / 2;
            int colLimit = (int) columns / 2;
            int row = rowStart;
            int col = colStart;
            boolean reverse = false;
            List<Integer> elements = new ArrayList<>();
            if (rows == 1) {
                for (int i = 0; i < columns; i++) {</pre>
                    elements.add(matrix[0][i]);
                return elements;
            } else if (columns == 1) {
                for (int i = 0; i < rows; i++) {</pre>
                    elements.add(matrix[i][0]);
                return elements;
            } else if (rows == 2 || columns == 2) {
                colLimit = 0;
                rowLimit = 1;
            } else if (columns == rows && rows % 2 == 0) {
                rows -= 1;
                columns -= 1;
                colLimit -= 1;
```

```
} else if (rows > columns) {
    if (columns % 2 == 0) {
        colLimit -= 1;
    } else if (rows - columns > 1) {
        rowLimit += 1;
} else if (rows < columns) {</pre>
    int rowReduce = (int) rows / 2;
    int colReduce = (int) columns / 2;
    boolean parity1 = rows % 2 == 0;
    boolean parity2 = columns % 2 == 0;
    int diff = Math.abs(colReduce - rowReduce);
    if (!parity1 && !parity2) {
        collimit += diff;
    } else if (!parity1 && parity2) {
        colLimit += diff;
        colLimit -= 1;
    } else {
        colLimit -= diff;
        colLimit -= 1;
    }
while (rowStart <= rowEnd && colStart <= colEnd) {</pre>
    elements.add(matrix[row][col]);
    if (row == rowLimit && col == colLimit)
        break;
    if (!reverse) {
        if (col < colEnd) {</pre>
            col += 1;
        } else if (row < rowEnd) {</pre>
            row += 1;
        } else {
            reverse = true;
            col -= 1;
    } else {
        if (col > colStart) {
            col -= 1;
        } else if (row > rowStart + 1) {
            row -= 1;
        } else {
            reverse = false;
            rowStart += 1;
            colStart += 1;
            rowEnd -= 1;
            colEnd -= 1;
            row = rowStart;
            col = colStart;
```

```
PS D:\Professional\Programming\Java> & 'C:\Program Files\Eclipse Adopti
ionMessages' '-cp' 'C:\Users\venka\AppData\Roaming\Code\User\workspaceSt
    0c7\bin' 'spiral_matrix'
    Spiral Order: [1, 2, 3, 4, 8, 12, 16, 15, 14, 13, 9, 5, 6, 7, 11, 10]
    PS D:\Professional\Programming\Java>
```

11. Valid Parentheses:

```
import java.util.Scanner;
    import java.util.Stack;
    public class valid parantheses {
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            System.out.print("Enter the parantheses expression: ");
            String input = scanner.next();
11
            Stack<Character> stack = new Stack<>();
12
            for (char letter : input.toCharArray()) {
13
                if (stack.empty()) {
14
15
                    stack.push(letter);
                    continue;
17
                char top = stack.peek();
19
                if (top == '(' && letter == ')') {
                    stack.pop();
21
                } else {
22
                    stack.push(letter);
23
                }
25
            if (stack.empty()) {
27
                System.out.println("Answer: Balanced");
            } else {
                System.out.println("Answer: Not balanced");
31
32
            scanner.close();
        }
   }
```

```
PS D:\Professional\Programming\Java> & 'C:\Progr
ionMessages' '-cp' 'C:\Users\venka\AppData\Roamin
0c7\bin' 'valid_parantheses'
Enter the parantheses expression: ((()))()
Answer: Balanced
PS D:\Professional\Programming\Java> & 'C:\Progr
ionMessages' '-cp' 'C:\Users\venka\AppData\Roamin
0c7\bin' 'valid_parantheses'
Enter the parantheses expression: ()(()())())
Answer: Not balanced
PS D:\Professional\Programming\Java>
```

12. Check Whether Anagrams:

```
import java.util.HashMap;
import java.util.Scanner;
public class anagram_strings {
  public static void main(String[] args) {
       Scanner scanner = new Scanner(System.in);
       System.out.println("Enter first string: ");
       String str1 = scanner.next();
       System.out.println("Enter second string: ");
        String str2 = scanner.next();
       HashMap<Character, Integer> map1 = new HashMap<>();
       HashMap<Character, Integer> map2 = new HashMap<>();
        for (char letter : str1.toCharArray()) {
           map1.putIfAbsent(letter, 0);
           map1.put(letter, map1.get(letter) + 1);
        for (char letter : str2.toCharArray()) {
           map2.putIfAbsent(letter, 0);
           map2.put(letter, map2.get(letter) + 1);
       boolean result = true;
        for (char key : map1.keySet()) {
            if (!map2.containsKey(key) || map1.get(key) != map2.get(key)) {
               result = false;
        if (result) {
           System.out.println("The strings are anagrams of each other.");
           System.out.println("The strings are not anagrams of each other.");
       scanner.close();
```

```
PS D:\Professional\Programming\Java> & 'C:\
ionMessages' '-cp' 'C:\Users\venka\AppData\R
0c7\bin' 'anagram_strings'
Enter first string:
venkat
Enter second string:
takvne
The strings are anagrams of each other.
PS D:\Professional\Programming\Java>
```

13. Longest palindromic Substring:

```
public class longest_palindrome {
   class Solution {
        public String longestPalindrome(String s) {
            if (s == null || s.length() == 0) {
            int start = 0;
            int end = 0;
            for (int i = 0; i < s.length(); i++) {</pre>
                int odd = expandAroundCenter(s, i, i);
                int even = expandAroundCenter(s, i, i + 1);
                int max_len = Math.max(odd, even);
                if (max_len > end - start) {
                    start = i - (max_len - 1) / 2;
                    end = i + max_len / 2;
            return s.substring(start, end + 1);
        private int expandAroundCenter(String s, int left, int right) {
            while (left >= 0 && right < s.length() && s.charAt(left) == s.charAt(right)) {</pre>
                left--;
                right++;
            return right - left - 1;
    public static void main(String[] args) {
        longest_palindrome outer = new longest_palindrome();
        Solution solution = outer.new Solution();
        String s = "babad";
        String result = solution.longestPalindrome(s);
        System.out.println("Longest Palindromic Substring: " + result);
```

```
    PS D:\Professional\Programming\Java> & 'C:\Find ionMessages' '-cp' 'C:\Users\venka\AppData\Row
0c7\bin' 'longest_palindrome'
Longest Palindromic Substring: aba
    PS D:\Professional\Programming\Java>
```

14. Longest Common Prefix:

```
import java.util.Arrays;
import java.util.Scanner;
public class longest_common_prefix {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int length;
        System.out.print("Enter the length: ");
        length = scanner.nextInt();
        String[] words = new String[length];
        System.out.print("Enter the words: ");
        for (int i = 0; i < length; i++) {
            words[i] = scanner.next();
        Arrays.sort(words);
        String first = words[0];
        String last = words[length - 1];
        String prefix = new String();
        for (int i = 0; i < Math.min(first.length(), last.length()); i++) {</pre>
            if (first.charAt(i) == last.charAt(i)) {
                prefix += first.charAt(i);
        if (prefix.isEmpty()) {
            System.out.println("No common prefix");
            System.out.println("The longest common prefix is: " + prefix);
        scanner.close();
```

```
PS D:\Professional\Programming\Java> & 'C:\
ionMessages' '-cp' 'C:\Users\venka\AppData\F
0c7\bin' 'longest_common_prefix'
Enter the length: 2
Enter the words: zenprint zenophone
The longest common prefix is: zen
PS D:\Professional\Programming\Java>
```

15. Delete the Middle Element of a Stack:

```
import java.util.Stack;
    import java.util.Scanner;
    public class delete_mid_elt_stack {
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            int length;
            System.out.print("Enter the length: ");
10
            length = scanner.nextInt();
11
            Stack<Integer> stack1 = new Stack<>();
12
13
            System.out.print("Enter the elements in stack: ");
14
            for (int i = 0; i < length; i++) {
15
                int elt = scanner.nextInt();
                stack1.push(elt);
17
            }
18
            int mid = (int) length / 2;
19
            int top = -1;
21
22
            Stack<Integer> stack2 = new Stack<>();
            while (!stack1.empty()) {
23
24
                top += 1;
                int elt = stack1.pop();
25
                if (top != mid) {
27
                     stack2.push(elt);
                }
28
29
            }
            while (!stack2.empty()) {
31
32
                System.out.print(stack2.pop() + " ");
33
            }
34
35
            scanner.close();
        }
    }
37
```

```
PS D:\Professional\Programming\Java> & 'C:\Program I ionMessages' '-cp' 'C:\Users\venka\AppData\Roaming\CoOc7\bin' 'delete_mid_elt_stack'
Enter the length: 5
Enter the elements in stack: 1 2 3 4 5
1 2 4 5
PS D:\Professional\Programming\Java> & 'C:\Program I ionMessages' '-cp' 'C:\Users\venka\AppData\Roaming\CoOc7\bin' 'delete_mid_elt_stack'
Enter the length: 10
Enter the elements in stack: 1 2 3 4 5 6 7 8 9 10
1 2 3 4 6 7 8 9 10
PS D:\Professional\Programming\Java>
```

16. Next Greater Element:

```
import java.util.Scanner;
    import java.util.Stack;
    public class next_greater_element {
        public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            int length;
            System.out.print("Enter the length: ");
10
            length = scanner.nextInt();
11
12
            int[] array = new int[length];
13
            System.out.print("Enter the array: ");
            for (int i = 0; i < length; i++) {</pre>
                array[i] = scanner.nextInt();
            }
17
            Stack<Integer> stack = new Stack<>();
            int[] answer = new int[length];
            for (int i = length - 1; i > -1; i--) {
21
22
                while (!stack.empty()) {
23
                    if (stack.peek() > array[i]) {
                         answer[i] = stack.peek();
                         break;
                     } else {
                         stack.pop();
                if (stack.empty()) {
                     answer[i] = -1;
                stack.push(array[i]);
            for (int elt : answer) {
                System.out.print(elt + " ");
            }
            scanner.close();
    }
```

```
PS D:\Professional\Programming\Java> & 'C:
ionMessages' '-cp' 'C:\Users\venka\AppData'
0c7\bin' 'next_greater_element'
Enter the length: 4
Enter the array: 4 5 2 25
5 25 25 -1
PS D:\Professional\Programming\Java>
```

17. Right Side View of a Tree:

```
import java.util.ArrayList;
    import java.util.List;
    public class right_side_view_tree {
        private List<Integer> list = new ArrayList<>();
        private void traversal(TreeNode root, int index) {
            if (root == null) {
                return;
11
            if (index < list.size()) {</pre>
                list.set(index, root.val);
12
13
            } else {
                list.add(root.val);
15
            traversal(root.left, index + 1);
17
            traversal(root.right, index + 1);
        }
        public List<Integer> rightSideView(TreeNode root) {
21
            traversal(root, 0);
22
            return list;
23
        }
25
        public static void main(String[] args) {
            TreeNode root = new TreeNode(1);
27
            root.left = new TreeNode(2);
            root.right = new TreeNode(3);
            root.left.right = new TreeNode(5);
            root.right.right = new TreeNode(4);
            right side view tree solution = new right side view tree();
            List<Integer> result = solution.rightSideView(root);
34
            System.out.println("Right Side View: " + result);
    }
```

```
PS D:\Professional\Programming\Java> & 'C:
ionMessages' '-cp' 'C:\Users\venka\AppData\
0c7\bin' 'right_side_view_tree'
Right Side View: [1, 3, 4]
PS D:\Professional\Programming\Java>
```

18. Maximum height or depth of a tree:

```
class TreeNode {
        int val;
        TreeNode left;
        TreeNode right;
        TreeNode(int val) {
            this.val = val;
            this.left = null;
            this.right = null;
        }
11
    };
12
13
    public class max_height_tree {
        private static int traversal(TreeNode root, int level) {
15
            if (root == null) {
                return level;
17
            }
            int leftSide = traversal(root.left, level + 1);
            int rightSide = traversal(root.right, level + 1);
            return Math.max(leftSide, rightSide);
21
        }
22
23
        public static int maxDepth(TreeNode root) {
            int height = traversal(root, 0);
25
            return height;
        }
27
        public static void main(String[] args) {
29
            TreeNode root = new TreeNode(1);
            root.left = new TreeNode(2);
            root.right = new TreeNode(3);
            root.left.left = new TreeNode(4);
32
            root.left.right = new TreeNode(5);
34
            root.right.right = new TreeNode(6);
            root.left.left.left = new TreeNode(7);
            int result = maxDepth(root);
            System.out.println("Max Depth of Tree: " + result);
    }
42
```

```
PS D:\Professional\Programming\Java> & 'C
ionMessages' '-cp' 'C:\Users\venka\AppData
0c7\bin' 'max_height_tree'
Max Depth of Tree: 4
PS D:\Professional\Programming\Java>
```