**DATA STRUCTURES AND ALGORITHMS**   **LAB ASSIGNMENT-7**

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COURSE – AIDE

SECTION - “A”

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Q - Take your name as input and print all the possible permutation of your name.

CODE:

import java.util.Scanner;

public class Permutation {

public static void permutation(String str) {

permutation("", str);

}

private static void permutation(String prefix, String str) {

int n = str.length();

if (n == 0) {

System.out.println(prefix);

} else {

for (int i = 0; i < n; i++) {

permutation(prefix + str.charAt(i), str.substring(0, i) + str.substring(i+1, n));

}

}

}

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter your name: ");

String name = scanner.nextLine();

permutation(name);

}

}

OUTPUT:

