

Programming Test 2

- 1. You can use any OOPS language to code the solution.
- 2. Evaluation of your code will be based on patterns used, maintainability, scalability, performance, optimisation, loose coupling of your solution.
 - 1. Write a Java program to find out whether the given String is Palindrome or not. OR
 - 2. Write a Java Program to reverse the letters present in the given String.
 - 3. Write a Java program to print the nodes present in the Circular LinkedList OR
 - 4. Write a program in Java to implement HashMap.
 - 5. The cost of stock on each day is given in an array A[] of size N. Find all the segments of days on which you buy and sell the stock so that in between those days your profit is maximum.

Note: Since there can be multiple solutions, the driver code will print 1 if your answer is correct, otherwise, it will return 0. In case there's no profit the driver code will print the string "No Profit" for a correct solution.

6. Given a Directed Graph with V vertices (Numbered from 0 to V-1) and E edges, check whether it contains any cycle or not.



Coding Page

```
public class ReverseString {
        public static void main(String[] args) {
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter a string:");
reverseString(originalString);
            System.out.println("Reversed string is:\n" +
reversedString);
        public static String reverseString(String originalString)
            String reversedString = "";
            for (int i = originalString.length() - 1; i >= 0; i--
            return reversedString;
```

Output:

Enter a string:

aryan

Reversed string is:

nayra



Process finished with exit code 0

```
package etraveli;
public class HashMapEg {
        public static void main(String[] args) {
            HashMap<String, Integer> map = new HashMap<String,</pre>
Integer>();
            map.put("Aryan", 20);
            map.put("Aditya", 35);
            System.out.println("Bhakti's age is " +
map.get("Bhakti"));
            System.out.println("Keys: " + map.keySet());
            System.out.println("Values: " + map.values());
            System.out.println("Entries: " + map.entrySet());
            if (map.containsKey("Aryan")) {
                System.out.println("Aryan's age is " +
map.get("Aryan"));
                System.out.println("Aryan is not in the map.");
```

Output:

Bhakti's age is 45

Keys: [Bhakti, Aditya, Aryan]

Values: [45, 35, 20]

Entries: [Bhakti=45, Aditya=35, Aryan=20]

Aryan's age is 20



Process finished with exit code 0