## Q1. Write A Java Program Check Whether a String Is Palindrome or not.

### Source Code

```
import java.util.Scanner;
 public class palin {
   public static boolean ispalin(String str1) {
      // Convert strings to lowercase
     str1 = str1.toLowerCase();
     int start = 0;
      int end = str1.length() - 1;
      while(start < end){
        if(str1.charAt(start) != str1.charAt(end)){
          return false;
        }
        start++;end--;
     }
      return true; }
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
     System.out.println("Enter your String..");
      String text = sc.nextLine();
      if(ispalin(text))
        System.out.println("The text" + text + "is a Palindrome");
        sc.close(); }}
 Terminal Output
$ javac palin.java
$ java palin
Enter your String..
john
The text john is not a Palindrome
Enter your String..
madam
```

The text madam is a Palindrome

# Q2. To print the initials of your name **Input ->John David Smith** Output -> J.D.S

#### **Source Code**

```
import java.util.Scanner;
 public class initials{
    public static String getInitials(String fullName) {
      // Split the full name into words
      fullName = fullName.toLowerCase();
      String[] name = fullName.split(" ");
      String initials = "";
      // Iterate over each word to extract the first character
      for (String letter : name) {
        if (!letter.isEmpty()) {
          initials = initials + letter.charAt(0) + ".";
        }
      // Remove the trailing space and period
      return initials.toString().toUpperCase();
    public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      System.out.println("Enter your name..");
      String fullName = sc.nextLine();
      System.out.println("Initials: " + getInitials(fullName));
      sc.close(); }
 }
$ java initials
```

## **Teminal Output**

\$ javac initials.java

Enter your name.. John Smith Doe Initials: J.S.D.