**ASSIGNMENT -4** DATE-5.12.2024

# 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(); }

}

## Teminal Output

$ javac initials.java

$ java initials

Enter your name..

John Smith Doe

Initials: J.S.D.