

1] Java Program to Check Palindrome String

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** Java - SAGR/src/sagar/PalindromeChecker.java - Eclipse
- Menu Bar:** File Edit Source Refactor Navigate Project Run Window Help
- Toolbars:** Standard, Quick Access
- Left Sidebar:** Package Explorer (College, Preana, SAGR), JRE System Library [JavaSE-1.8], Referenced Libraries
- Central Area:** Editor tab for PalindromeChecker.java containing the following code:

```
1 package sagar;
2
3 public class PalindromeChecker {
4     public static void main(String[] args) {
5
6         String str = "Radar";
7         String reverseStr = "";
8
9         int strLength = str.length();
10
11        // Loop to reverse the string
12        for (int i = strLength - 1; i >= 0; --i) {
13            reverseStr += str.charAt(i);
14        }
15
16        // Check if the original string and reversed string are the same (ignoring case)
17        if (str.equalsIgnoreCase(reverseStr)) {
18            System.out.println(str + " is a Palindrome String.");
19        } else {
20            System.out.println(str + " is not a Palindrome String.");
21        }
22    }
23
24 }
```
- Right Sidebar:** Task List, Outline (sagar, PalindromeChecker, main(String[]))
- Bottom Status Bar:** Writable, Smart Insert, 4:10

2] Java Program to Check Palindrome Number

The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** Java - SAGR/src/sagar/NumberPalindromeChecker.java - Eclipse
- Menu Bar:** File Edit Source Refactor Navigate Project Run Window Help
- Toolbars:** Standard, Quick Access
- Left Sidebar:** Package Explorer (College, Preana, SAGR), JRE System Library [JavaSE-1.8], Referenced Libraries
- Central Area:** Editor tab for NumberPalindromeChecker.java containing the following code:

```
1 package sagar;
2
3 public class NumberPalindromeChecker {
4     public static void main(String[] args) {
5
6         int num = 3553;
7         int reversedNum = 0;
8         int remainder;
9
10        int originalNum = num;
11
12        // Reverse the number
13        while (num != 0) {
14            remainder = num % 10;
15            reversedNum = reversedNum * 10 + remainder;
16            num /= 10;
17        }
18
19        // Check if the number is a palindrome
20        if (originalNum == reversedNum) {
21            System.out.println(originalNum + " is a Palindrome.");
22        } else {
23            System.out.println(originalNum + " is not a Palindrome.");
24        }
25    }
26
27 }
```
- Right Sidebar:** Task List, Outline (sagar, NumberPalindromeChecker, main(String[]))
- Bottom Status Bar:** Writable, Smart Insert, 4:10