Experiment 3.1

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Semester: 6 Date of Performance: 28-03-24 Subject Name: JAVA LAB Subject Code: 21CSH-319

1. Aim: Create a palindrome creator application for making a longest possible palindrome out of given input string.

2. Objective: To learn about concept of HashMap in java. To learn about concept of String in java.

3. Code and output:

```
if (dp[left][right] && len > ans.length()) {
    ans = s.substring(left, right + 1);
}

return ans;
}

public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter the input string: ");
    String input = scanner.nextLine();
    scanner.close();
    System.out.println("Input string: " + input);
    System.out.println("Longest palindromic substring: " + longestPalindrome(input));
}
```

4. Output:

```
Enter the input string: abbajkabbaabbaabbakj
Input string: abbajkabbaabbaabbakj
Longest palindromic substring: jkabbaabbaabbakj
Process finished with exit code 0
```