

Palindrome.java

```
1 package LongestPalindrome;
2 import java.util.*;
3
4 public class Palindrome {
5
6     public String LongPalin(String Str1)
7     {
8         if(Str1.isEmpty())
9         {
10             return null;
11         }
12         if(Str1.length() == 1)
13         {
14             return Str1;
15         }
16
17         String lngs = Str1.substring(0,1);
18         for(int x=0; x<Str1.length(); x++)
19         {
20             String lngx = LongestPalindrome(Str1,x,x);
21             if(lngx.length() > lngs.length() )
22             {
23                 lngs = lngx;
24             }
25
26             lngx = LongestPalindrome(Str1,x,x+1);
27             if(lngx.length() > lngs.length())
28             {
29                 lngs = lngx;
30             }
31         }
32         return lngs;
33     }
34
35     public String LongestPalindrome(String Str1, int start, int last) {
36
37         while(start >=0 && last <=Str1.length()-1 && Str1.charAt(start) == Str1.charAt(last))
38         {
39             start--;
40             last++;
41         }
42         return Str1.substring(start +1,last);
43     }
44
45     public static void main(String args[])
46     {
47         Scanner sc = new Scanner(System.in);
48         System.out.print("Please insert some string values: ");
49         String Str2 = sc.nextLine();
50
51         System.out.println("Result of longest Palindrome is: " + new
52             Palindrome().LongPalin(Str2));
53     }
54 }
55
```