Palindrome Program in Java

Palindrome number in java: A **palindrome number** is *a number that is same after reverse*. For example 545, 151, 34543, 343, 171, 48984 are the palindrome numbers. It can also be a string like LOL, MADAM etc.

Palindrome number algorithm

* Get the number to check for palindrome
* Hold the number in temporary variable
* Reverse the number
* Compare the temporary number with reversed number
* If both numbers are same, print "palindrome number"
* Else print "not palindrome number"

Let's see the palindrome program in java. In this java program, we will get a number variable and check whether number is palindrome or not.

1. **class** PalindromeExample{
2. **public** **static** **void** main(String args[]){
3. **int** r,sum=0,temp;
4. **int** n=454;//It is the number variable to be checked for palindrome
6. temp=n;
7. **while**(n>0){
8. r=n%10;  //getting remainder
9. sum=(sum\*10)+r;
10. n=n/10;
11. }
12. **if**(temp==sum)
13. System.out.println("palindrome number ");
14. **else**
15. System.out.println("not palindrome");
16. }
17. }

Output:

palindrome number

Palindrome Program in Java (Another way)

You can also use a method where number or string is not predefined. Here, user has to put the number or string as input to check if the number/string is palindrome.

1. **import** java.util.\*;
2. **class** PalindromeExample2
3. {
4. **public** **static** **void** main(String args[])
5. {
6. String original, reverse = ""; // Objects of String class
7. Scanner in = **new** Scanner(System.in);
8. System.out.println("Enter a string/number to check if it is a palindrome");
9. original = in.nextLine();
10. **int** length = original.length();
11. **for** ( **int** i = length - 1; i >= 0; i-- )
12. reverse = reverse + original.charAt(i);
13. **if** (original.equals(reverse))
14. System.out.println("Entered string/number is a palindrome.");
15. **else**
16. System.out.println("Entered string/number isn't a palindrome.");
17. }
18. }

Output:

**Use image PalindromeExample**