**public class NumberPalindrome {**

**public static void main(String args[]){**

**int r,sum=0,temp;**

**int n=454;//It is the number variable to be checked for palindrome**

**temp=n;**

**while(n>0){**

**r=n%10; //getting remainder**

**sum=(sum\*10)+r;**

**n=n/10;**

**}**

**if(temp==sum)**

**System.out.println("palindrome number ");**

**else**

**System.out.println("not palindrome");**

**}**

**}**

**import java.util.\*;**

**class PalindromeExample2**

**{**

**public static void main(String args[])**

**{**

**String original, reverse = ""; // Objects of String class**

**Scanner in = new Scanner(System.in);**

**System.out.println("Enter a string/number to check if it is a palindrome");**

**original = in.nextLine();**

**int length = original.length();**

**for ( int i = length - 1; i >= 0; i-- )**

**reverse = reverse + original.charAt(i);**

**if (original.equals(reverse))**

**System.out.println("Entered string/number is a palindrome.");**

**else**

**System.out.println("Entered string/number isn't a palindrome.");**

**}**

**}**

**package second;**

**public class StringDemo {**

**public static void main(String[] args) {**

**/\***

**\* String str = "jitesh";// by using literals String str1 = new**

**\* String("jitesh");// by using new keywords**

**\*/**

**/\***

**\* System.out.println("value of str : "+str);**

**\* System.out.println("value of str1 : "+str1);**

**\*/**

**// jitesh ==== jitesh katkar**

**// jitesh katkar === katkar**

**/\***

**\* String upperCase = str.toUpperCase(); String concat = str.concat(" katkar");**

**\* String txt =**

**\* "String is sequence of characters... we can create objects of string in two ways "**

**\* ; String subString = txt.substring(6); System.out.println(upperCase);**

**\* System.out.println(concat); System.out.println("substring : "+subString);**

**\*/**

**/\***

**\* txt.contains("we"); txt.equals("");**

**\*/**

**String str = "jitesh";// by using literals**

**String str1 = new String("jitesh");// by using new keywords**

**if (str.equals(str1)) {**

**System.out.println("STrings are equal by equals method");**

**} else {**

**System.out.println("not equals by equals method");**

**}**

**if (str == str1) {**

**System.out.println("strings are equals by == operator");**

**} else {**

**System.out.println("not equals by == ");**

**}**

**System.out.println(5 == 5);**

**System.out.println(6 == 5);**

**System.out.println("Str1 : " + str1 + "str : " + str);**

**System.out.println(str == str1);**

**}**

**}**

**package com.vehicle.info;**

**public class Car {**

**String carCompany;**

**String carModel;**

**String carColor;**

**int price;**

**String carEngine;**

**String fuelType;**

**float mileage;**

**int speed;**

**int seatingCapacity;**

**String style;**

**public void startCar() {**

**System.out.println("car is running with max speed : "+speed +"km/hr");**

**}**

**public void getCarInfo() {**

**System.out.println();**

**System.out.println(carCompany +" "+carModel +" "+ carColor +" "+carEngine**

**+" "+fuelType +" "+ mileage +" "+speed +" "+seatingCapacity +" "+style);**

**}**

**public static void main(String[] args) {**

**Car altroz = new Car();**

**altroz.carCompany = "TATA";**

**altroz.carModel="Top model";**

**altroz.carColor = "Mat-Gray";**

**altroz.carEngine ="1300HP";**

**altroz.fuelType = "Petrol";**

**altroz.mileage = 25.5f;**

**altroz.speed = 180;**

**altroz.seatingCapacity=5;**

**altroz.style="SUV";**

**altroz.carColor = "red";**

**altroz.getCarInfo();**

**System.out.println();**

**altroz.startCar();**

**Car dezire = new Car();**

**dezire.carCompany = "Suzuki";**

**dezire.carModel="Top model";**

**dezire.carColor = "While";**

**dezire.carEngine ="1200HP";**

**dezire.fuelType = "Diesel";**

**dezire.mileage = 28.5f;**

**dezire.speed = 180;**

**dezire.seatingCapacity=5;**

**dezire.style="Sedan";**

**dezire.getCarInfo();**

**System.out.println();**

**dezire.startCar();**

**}**

**}**

**public class CountCharacter**

**{**

**public static void main(String[] args) {**

**String string = "The best of both worlds";**

**int count = 0;**

**//Counts each character except space**

**for(int i = 0; i < string.length(); i++) {**

**if(string.charAt(i) != ' ')**

**count++;**

**}**

**//Displays the total number of characters present in the given string**

**System.out.println("Total number of characters in a string: " + count);**

**}**

**}**

**public class SumOfNaturalNumber1**

**{**

**public static void main(String[] args)**

**{**

**int i, num = 10, sum = 0;**

**//executes until the condition returns true**

**for(i = 1; i <= num; ++i)**

**{**

**//adding the value of i into sum variable**

**sum = sum + i;**

**}**

**//prints the sum**

**System.out.println("Sum of First 10 Natural Numbers is = " + sum);**

**}**

**}**