DAY 5

package java1;  
import java.util.Scanner;  
  
public class Java {  
  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.in);  
 int number = sc.nextInt();  
 int count = countDigits(number);  
 System.out.println("The number of digits in " + number + " is " + count);  
 }  
  
 public static int countDigits(int n) {  
 if (n < 10) {  
 return 1;  
 } else {  
 return 1 + countDigits(n / 10);  
 }  
 }  
  
}

2)

package java1;  
import java.util.Scanner;  
  
public class Java {  
  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.in);  
 String s = sc.nextLine();  
  
 if (isPalindrome(s, 0, s.length() - 1)) {  
 System.out.println("Yes");  
 } else {  
 System.out.println("No");  
 }  
 }  
  
 static boolean isPalindrome(String s, int start, int end) {  
 if (start >= end)  
 return true;  
 if (s.charAt(start) != s.charAt(end))  
 return false;  
 return isPalindrome(s, start + 1, end - 1);  
 }  
  
}

3)

package java1;  
import java.util.Scanner;  
  
public class Java {  
  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.in);  
  
 int a = sc.nextInt();   
 int b = sc.nextInt();   
  
 int result = power(a, b);  
 System.out.println(result);  
 }  
 static int power(int a, int b) {  
 if (b == 0)  
 return 1;  
 return a \* power(a, b - 1);  
 }  
  
}

4)

package java1;  
import java.util.Scanner;  
  
public class Java {  
  
 public static void main(String[] args) {  
Scanner sc = new Scanner(System.in);  
 String str = sc.nextLine();   
 char ch = sc.next().charAt(0);   
 int count = countChar(str, ch, 0);  
 System.out.println(count);  
 }  
 static int countChar(String str, char ch, int index) {  
 if (index == str.length())  
 return 0;  
 if (str.charAt(index) == ch)  
 return 1 + countChar(str, ch, index + 1);  
 else  
 return countChar(str, ch, index + 1);  
 }  
  
}