1.Find the lengthiest word in a given sentence.

import java.util.\*;

class sentence

{

public static void main(String args[])

{

Scanner s = new Scanner(System.in);

String sent,found;

String []ss = new String[100];

System.out.print("Enter the sentence : ");

sent = s.nextLine();

ss = sent.split(" ");

found = ss[0];

for(int i=1;i<ss.length;i++)

{

if(ss[i].length() > found.length())

found = ss[i];

}

System.out.println("The lengthiest word is : " + found);

System.out.println("The index position is : " + sent.indexOf(found));

}

}

/\*

OUTPUT :

Enter the sentence : My name is Bharath kumar AMR

The lengthiest word is : Bharath

The index position is : 11

\*/

2.Check whether a given string is paildrome or not.

import java.util.\*;

class palindrome

{

public static void main(String args[])

{

Scanner input = new Scanner(System.in);

String word;

int l,count = 0;

System.out.print("Enter the word : ");

word = input.nextLine();

for(int i=0;i<word.length()/2;i++)

{

if(word.charAt(i) == word.charAt(word.length()-1-i))

count++;

else

{

count = 0;

break;

}

}

if(count > 0)

System.out.println("the given word is palindrome");

else

System.out.println("the given word is not a palindrome");

}

}

/\*

OUTPUT :

Enter the word : nitin

the given word is palindrome

\*/

3.Check whether a given sentence is pangram or not.

import java.util.\*;

class Pangram

{

public static void main(String args[])

{

Scanner s = new Scanner(System.in);

String sent;

int zero = 0;

String []ss = new String [100];

int []val = new int[26];

System.out.print("Enter the sentence : ");

sent = s.nextLine();

ss = sent.split("");

for(int i=0;i<26;i++)

val[i] = 0;

for(int j=0;j<ss.length;j++)

{

switch(ss[j])

{

case "a" : case "A" :{ val[0] = 1; continue;}

case "b" : case "B" :{ val[1] = 1; continue;}

case "c" : case "C" :{ val[2] = 1; continue;}

case "d" : case "D" :{ val[3] = 1; continue;}

case "e" : case "E" :{ val[4] = 1; continue;}

case "f" : case "F" :{ val[5] = 1; continue;}

case "g" : case "G" :{ val[6] = 1; continue;}

case "h" : case "H" :{ val[7] = 1; continue;}

case "i" : case "I" :{ val[8] = 1; continue;}

case "j" : case "J" :{ val[9] = 1; continue;}

case "k" : case "K" :{ val[10] = 1; continue;}

case "l" : case "L" :{ val[11] = 1; continue;}

case "m" : case "M" :{ val[12] = 1; continue;}

case "n" : case "N" :{ val[13] = 1; continue;}

case "o" : case "O" :{ val[14] = 1; continue;}

case "p" : case "P" :{ val[15] = 1; continue;}

case "q" : case "Q" :{ val[16] = 1; continue;}

case "r" : case "R" :{ val[17] = 1; continue;}

case "s" : case "S" :{ val[18] = 1; continue;}

case "t" : case "T" :{ val[19] = 1; continue;}

case "u" : case "U" :{ val[20] = 1; continue;}

case "v" : case "V" :{ val[21] = 1; continue;}

case "w" : case "W" :{ val[22] = 1; continue;}

case "x" : case "X" :{ val[23] = 1; continue;}

case "y" : case "Y" :{ val[24] = 1; continue;}

case "z" : case "Z" :{ val[25] = 1; continue;}

}

}

for(int k=0;k<26;k++)

{

if(val[k] == 0)

zero = 0;

else

zero +=1;

}

if(zero > 0)

System.out.println("pangram");

else

System.out.println("not a pangram");

}

}

/\*

OUTPUT :

Enter the sentence : the quick brown fox jumps over the lazy dog

pangram

\*/