5.Write a Java Program to find longest substring without repeating characters in a string.

import java.util.LinkedHashMap;

public class Main

{

static void longestSubstring(String inputString)

{

char[] charArray = inputString.toCharArray();

String longestSubstring = null;

int longestSubstringLength = 0;

LinkedHashMap<Character, Integer> charPosMap = new LinkedHashMap<Character, Integer>();

for (int i = 0; i < charArray.length; i++)

{

char ch = charArray[i];

if(!charPosMap.containsKey(ch))

{

charPosMap.put(ch, i);

}

else

{

i = charPosMap.get(ch);

charPosMap.clear();

}

if(charPosMap.size() > longestSubstringLength)

{

longestSubstringLength = charPosMap.size();

longestSubstring = charPosMap.keySet().toString();

}

}

System.out.println("Input String : "+inputString);

System.out.println("The longest substring : "+longestSubstring);

System.out.println("The longest Substring Length : "+longestSubstringLength);

}

public static void main(String[] args)

{

longestSubstring("javaconceptoftheday");

}

}