Question1:

Q1.1:

Code:

import java.util.\*;

import java.io.\*;

public class e2\_1\_1

{

public static void main(String args[])

{

String str = null;

int sum = 1;

while(true)

{

Scanner reader=new Scanner(System.in);

System.out.println("please input a string ,only contain \'a\' and \'b\'");

str = reader.nextLine();

sum = 1;

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

{

if(str.charAt(i) == 'b')

sum\*=-1;

if(str.charAt(i) != 'b' && str.charAt(i) != 'a')

{

sum = 0;

break;

}

}

//System.out.println(sum);

if(sum == -1)

System.out.println("yes , "+str+" belongs to the language L");

else if(sum == 1)

System.out.println("no , "+str+" not the language L");

else

{

System.out.println("error,you input is not good");

}

int great = 0;

try

{

System.out.println("\n\nif you want to exit ,please input \'0\',\n or \'1\' to continue");

int go = reader.nextInt();

System.out.println("\n\n");

if(go == 0) break;

}

catch(Exception e)

{

System.out.println("error,you input is not int number");

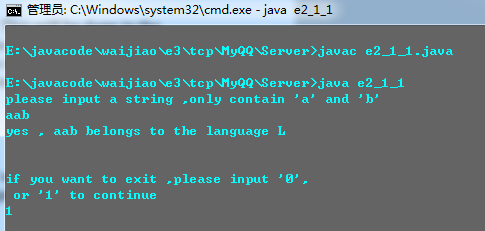
}

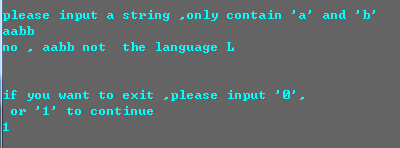
}

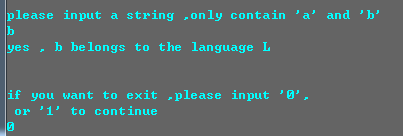
}

}

执行结果







Q1.2:

Code:

import java.io.\*;

import java.util.\*;

public class e2\_1\_2

{

public static void main(String args[])

{

WriteWordThread one,two,three,four;

String[] strArr = new String[4];

String str = null;

int i = 0;

try

{

FileReader inOne =new FileReader("student.txt");

BufferedReader inTwo = new BufferedReader(inOne);

while((str=inTwo.readLine())!=null)

{

strArr[i] = str;

i++;

}

}

catch(IOException e)

{System.out.println(e);}

one = new WriteWordThread(strArr[0],1);

two = new WriteWordThread(strArr[1],2);

three = new WriteWordThread(strArr[2],3);

four = new WriteWordThread(strArr[3],4);

one.start();

two.start();

three.start();

four.start();

}

}

class WriteWordThread extends Thread

{

String str = null;

int n = 0;

WriteWordThread(String s,int n)

{

this.str = s;

this.n = n;

}

public void run()

{

//System.out.println("I am "+n+" I read from txt is "+str);

int sum = 1;

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

{

if(str.charAt(i) == 'b')

sum\*=-1;

if(str.charAt(i) != 'b' && str.charAt(i) != 'a')

{

sum = 0;

break;

}

}

if(sum == -1)

System.out.println("yes , \""+str+"\" belongs to the language L");

else if(sum == 1)

System.out.println("no , \""+str+"\" not the language L");

else

{

System.out.println("error,\""+str+"\" you input is not good");

}

}

}

/\* read the txt

import java.io.\*;

public class e2\_1\_2

{

public static void main(String args[])

{

String str = null;

try

{

FileReader inOne =new FileReader("student.txt");

BufferedReader inTwo = new BufferedReader(inOne);

while((str=inTwo.readLine())!=null)

{

System.out.println(str);

}

}

catch(IOException e){System.out.println(e);}

}

}

\*\*\*\*\*\*\*\*\*\*\*\*\*\* add xiancheng

import java.io.\*;

import java.util.\*;

public class e2\_1\_2

{

public static void main(String args[])

{

WriteWordThread one,two,three,four;

String[] strArr = new String[4];

String str = null;

int i = 0;

try

{

FileReader inOne =new FileReader("student.txt");

BufferedReader inTwo = new BufferedReader(inOne);

while((str=inTwo.readLine())!=null)

{

strArr[i] = str;

i++;

}

}

catch(IOException e)

{System.out.println(e);}

one = new WriteWordThread(strArr[0],1);

two = new WriteWordThread(strArr[1],2);

three = new WriteWordThread(strArr[2],3);

four = new WriteWordThread(strArr[3],4);

one.start();

two.start();

three.start();

four.start();

}

}

class WriteWordThread extends Thread

{

String str = null;

int n = 0;

WriteWordThread(String s,int n)

{

this.str = s;

this.n = n;

}

public void run()

{

System.out.println("I am "+n+" I write "+str);

}

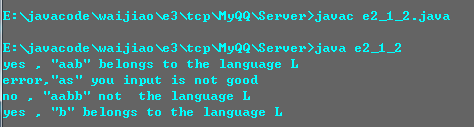
}

// LinkedList

// http://blog.csdn.net/jdsjlzx/article/details/41654295

\*/

执行结果



Q2:

Code:

import java.io.\*;

import java.util.\*;

public class e2\_2

{

public static void main(String[] args)

{

WriteWordThread one,two,three;

String[] strArr = new String[9];

String[] strWrit = new String[9];

strArr[0] = "ccababccbcabaaccabaabccbcaacaa"+"\r\n";

strArr[1] = "cab"+"\r\n";

strArr[2] = "accbaa"+"\r\n";

strArr[3] = "cccaabacaab"+"\r\n";

strArr[4] = "ababababababababbbabaab"+"\r\n";

strArr[5] = "ccb"+"\r\n";

strArr[6] = "a"+"\r\n";

strArr[7] = "ccabaabccbcaabaa"+"\r\n";

strArr[8] = "ccababccbcabaaccabaabccbcaacaa"+"\r\n";

File file = new File("tut.txt");

String str = null;

byte b[] = null;

int i = 0 ,num = 9,j = 0;

try{

FileOutputStream out =new FileOutputStream(file);

while(i < num)

{

b = null;

b = strArr[i].getBytes();

out.write(b);

i++;

}

out.close();

}

catch(IOException e){

System.out.println(e);

}

try

{

FileReader inOne =new FileReader(file);

BufferedReader inTwo = new BufferedReader(inOne);

i = 0;

while((str=inTwo.readLine())!=null)

{

strWrit[i] = str;

System.out.println(strWrit[i]);

i++;

}

}

catch(IOException e)

{System.out.println(e);}

i = 0;

while(i < 9)

{

one = new WriteWordThread(strWrit[i],i);

two = new WriteWordThread(strWrit[i+1],i+1);

three = new WriteWordThread(strWrit[i+2],i+1);

one.start();

two.start();

three.start();

i+=3;

}

}

}

class WriteWordThread extends Thread

{

String str = null;

int n = 0;

WriteWordThread(String s,int n)

{

this.str = s;

this.n = n;

}

public void run()

{

//System.out.println("I am "+n+" I read from txt is "+str);

int sum = 1;

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

{

if((i+2<str.length()) && (str.charAt(i) == 'a') && (str.charAt(i+1) == 'a') && (str.charAt(i+2) == 'b'))

sum\*=-1;

else

sum\*=1;

}

if(sum == -1)

System.out.println("yes , \""+str+"\" belongs this language L");

else

System.out.println("no , \""+str+"\" not belongs this language ");

}

}

/\* write to txt and read from txt

import java.io.\*;

import java.util.\*;

public class e2\_2

{

public static void main(String[] args)

{

String[] strArr = new String[9];

String[] strWrit = new String[9];

strArr[0] = "ccababccbcabaaccabaabccbcaacaa"+"\r\n";

strArr[1] = "cab"+"\r\n";

strArr[2] = "accbaa"+"\r\n";

strArr[3] = "cccaabacaab"+"\r\n";

strArr[4] = "ababababababababbbabaab"+"\r\n";

strArr[5] = "ccb"+"\r\n";

strArr[6] = "a"+"\r\n";

strArr[7] = "ccabaabccbcaabaa"+"\r\n";

strArr[8] = "ccababccbcabaaccabaabccbcaacaa"+"\r\n";

File file = new File("tut.txt");

String str = null;

byte b[] = null;

int i = 0 ,num = 9;

try{

FileOutputStream out =new FileOutputStream(file);

while(i < num)

{

b = null;

b = strArr[i].getBytes();

out.write(b);

i++;

}

out.close();

}

catch(IOException e){

System.out.println(e);

}

try

{

FileReader inOne =new FileReader(file);

BufferedReader inTwo = new BufferedReader(inOne);

i = 0;

while((str=inTwo.readLine())!=null)

{

strWrit[i] = str;

System.out.println(strWrit[i]);

i++;

}

}

catch(IOException e)

{System.out.println(e);}

}

}

\*/

/\* change the line

import java.io.\*;

import java.util.\*;

public class e2\_2{

public static void main(String args[]){

Scanner reader=new Scanner(System.in);

int b;

try{

FileOutputStream writefile=new FileOutputStream("line.txt");

int line=1,n=10;

System.out.println("input"+n+"lines context,ok:");

while(line<=n){

String s=reader.nextLine();s+="\r\n";//change the new line

byte buffer[]=s.getBytes();

writefile.write(buffer,0,buffer.length);

line++;

}

writefile.close();

}

catch(IOException e){

System.out.println("Error "+e);

}

}

}

\*/

/\* write to txt

import java.io.\*;

import java.util.\*;

public class e2\_2

{

public static void main(String[] args)

{

String[] strArr = new String[5];

strArr[0] = "abcd";

strArr[1] = "dcba";

strArr[2] = "qwer";

strArr[3] = "asdf";

strArr[4] = "zxcv";

File file = new File("tut.txt");

String str = null;

//byte[] b=new byte[1024];

//for(int i = 0;i < 5 ;i++)

//{b = strArr[i].getBytes();}

byte b[] = strArr[0].getBytes();

try{

FileOutputStream out =new FileOutputStream(file);

out.write(b);

out.close();

}

catch(IOException e){

System.out.println(e);

}

try

{

FileReader inOne =new FileReader(file);

BufferedReader inTwo = new BufferedReader(inOne);

while((str=inTwo.readLine())!=null)

{

System.out.println(str);

}

}

catch(IOException e)

{System.out.println(e);}

}

}

\*/

执行结果：

