21BCM061

Practical 4

Object Oriented Application Development

**import** **java.awt.**\*;

**import** **java.awt.event.**\*;

**import** **static** **java.lang.System.out**;

**import** **java.io.**\*;

**public** **class** p4{

p4(){

**Frame** f **=** **new** Frame("Menu");

**Button** b1 **=** **new** Button("\*\* Read File \*\*");

**Button** b2 **=** **new** Button("\*\* Save File \*\*");

**Button** b3 **=** **new** Button("\*\* Copy File \*\*");

**Button** b4 **=** **new** Button("\*\* Delete File \*\*");

b1.addActionListener(**new** ActionListener(){

**public** **void** actionPerformed(**ActionEvent** *e*){

**Frame** f1 **=** **new** Frame("Read File");

**TextField** t1 **=** **new** TextField();

**Button** bload **=** **new** Button("Load");

**TextArea** ta **=** **new** TextArea();

bload.addActionListener(**new** ActionListener(){

**public** **void** actionPerformed(**ActionEvent** *e*){

**String** fname **=** t1.getText();

**try**{

**FileInputStream** f **=** **new** FileInputStream(fname);

**BufferedReader** br **=** **new** BufferedReader(**new** InputStreamReader(f));

**while**(true){

**try**{

**String** s **=** br.readLine();

**if**(s**==**null){

**break**;

}

ta.append(s**+**"\n");

}**catch**(**Exception** *e1*){

print("There was an error reading the file");

}

}

}**catch**(**FileNotFoundException** *e1*){

print("File not found");

}

}

});

f1.addWindowListener(**new** WindowAdapter(){

**public** **void** windowClosing(**WindowEvent** *e*){

f1.dispose();

}

});

t1.setBounds(50,50, 150,20);

bload.setBounds(50,100, 60,30);

ta.setBounds(50,150, 300,300);

f1.add(t1);

f1.add(bload);

f1.add(ta);

f1.setSize(500,500);

f1.setLayout(null);

f1.setVisible(true);

}

});

b2.addActionListener(**new** ActionListener(){

**public** **void** actionPerformed(**ActionEvent** *e*){

**Frame** f2 **=** **new** Frame("Save File");

**TextField** t1 **=** **new** TextField();

**Button** bsave **=** **new** Button("Save");

**TextArea** ta **=** **new** TextArea();

bsave.addActionListener(**new** ActionListener(){

**public** **void** actionPerformed(**ActionEvent** *e*){

**String** fname **=** t1.getText();

**try**{

**File** f **=** **new** File(fname);

**FileWriter** fw **=** **new** FileWriter(f);

fw.write(ta.getText());

fw.close();

}**catch**(**IOException** *e1*){

print("There was an error saving the file");

}

}

});

f2.addWindowListener(**new** WindowAdapter(){

**public** **void** windowClosing(**WindowEvent** *e*){

f2.dispose();

}

});

t1.setBounds(50,50, 150,20);

bsave.setBounds(50,100, 60,30);

ta.setBounds(50,150, 300,300);

f2.add(t1);

f2.add(bsave);

f2.add(ta);

f2.setSize(500,500);

f2.setLayout(null);

f2.setVisible(true);

}

});

b3.addActionListener(**new** ActionListener(){

**public** **void** actionPerformed(**ActionEvent** *e*){

**Frame** f3 **=** **new** Frame("Copy File");

**TextField** t1 **=** **new** TextField();

**TextField** t2 **=** **new** TextField();

**Button** bcopy **=** **new** Button("Copy");

bcopy.addActionListener(**new** ActionListener(){

**public** **void** actionPerformed(**ActionEvent** *e*){

**String** fname1 **=** t1.getText();

**String** fname2 **=** t2.getText();

**try**{

**FileInputStream** f **=** **new** FileInputStream(fname1);

**BufferedReader** br **=** **new** BufferedReader(**new** InputStreamReader(f));

**File** f1 **=** **new** File(fname2);

**FileWriter** fw **=** **new** FileWriter(f1);

**while**(true){

**try**{

**String** s **=** br.readLine();

**if**(s**==**null){

**break**;

}

fw.write(s**+**"\n");

}**catch**(**Exception** *e1*){

print("There was an error reading the file");

}

}

fw.close();

}**catch**(**FileNotFoundException** *e1*){

print("File not found");

}**catch**(**IOException** *e1*){

print("There was an error saving the file");

}

}

});

f3.addWindowListener(**new** WindowAdapter(){

**public** **void** windowClosing(**WindowEvent** *e*){

f3.dispose();

}

});

t1.setBounds(50,50, 150,20);

t2.setBounds(50,100, 150,20);

bcopy.setBounds(50,150, 60,30);

f3.add(t1);

f3.add(t2);

f3.add(bcopy);

f3.setSize(500,500);

f3.setLayout(null);

f3.setVisible(true);

}

});

b4.addActionListener(**new** ActionListener(){

**public** **void** actionPerformed(**ActionEvent** *e*){

**Frame** f4 **=** **new** Frame("Delete File");

**TextField** t1 **=** **new** TextField();

**Button** bdelete **=** **new** Button("Delete");

bdelete.addActionListener(**new** ActionListener(){

**public** **void** actionPerformed(**ActionEvent** *e*){

**String** fname **=** t1.getText();

**File** f **=** **new** File(fname);

**if**(f.delete()){

print("File deleted successfully");

}**else**{

print("There was an error deleting the file");

}

}

});

f4.addWindowListener(**new** WindowAdapter(){

**public** **void** windowClosing(**WindowEvent** *e*){

f4.dispose();

}

});

t1.setBounds(50,50, 150,20);

bdelete.setBounds(50,100, 60,30);

f4.add(t1);

f4.add(bdelete);

f4.setSize(500,500);

f4.setLayout(null);

f4.setVisible(true);

}

});

f.addWindowListener(**new** WindowAdapter(){

**public** **void** windowClosing(**WindowEvent** *e*){

f.dispose();

}

});

f.add(b1);

f.add(b2);

f.add(b3);

f.add(b4);

f.setLayout(**new** GridLayout(4,1));

f.setSize(500,500);

f.setVisible(true);

}

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

p4 obj **=** **new** p4();

}

**private** **static** <**T**>**void** print(**T** *s*){

out.print(s);

}

**public** **static** **void** endl(){

out.println();

}

}





