import javax.swing.JOptionPane;

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public class MyAccountLogin2 {

// Creating a method

public boolean checkUsername(String username){

String message1;//declaring variables

boolean check;

if(username.length()<5){

check = username.contains("\_");

}

else{check=false;}

return check;

}

// creating a method which checks username statement

public String checkUsernameStatement(boolean result){

String message;//declaring variables

if(result){

message="Username was captured successfully.";

}

else{

message="Incorrectly formatted username \n." +

"Make sure username contains an underscore \n"

+ "and is less than 5 characters long";

}

return message;

}

//creating a method which checks password complexity

public boolean checkPasswordComplexity(String pword){

String displayMessage2;//declaring a variable

boolean check;

String uppers=".\*[A-Z]\*.";

String num=".\*[0-9]\*.";

String sChar= "!@#$%^&\*()\_-+={|}[].':;?/<>,";

if(pword.length()>=8){

if(pword.matches(uppers)){

if(pword.matches(num)){

displayMessage2="Password is correct(uppers,numbers and length)";check=true;

for(int index=0;index<pword.length();index++){

String letter=Character.toString(pword.charAt(index));

if(sChar.contains(letter)){

displayMessage2="Password successfully captured.";check=true;

break;

}

else {displayMessage2= "Password incorrect, no special characters";check = false; }

}

}

else {displayMessage2 = "Password incorrect,check numbers";check = false;}

}

else {displayMessage2 = "Password incorrect,check uppers";check = false;}

}

else {displayMessage2 = "Password incorrect,check length ";check = false;

}

System.out.println( displayMessage2);//method for displaying output

return check;

}

//creating a method which checks password statement

public String checkPasswordStatement(boolean result){

String message;

if(result){

message="Password successfully captured.";

}

else{

message="Incorrect formatted password,please /n ensure that"+

"the password contains atleast characters,/n"+

"a capital letter, a number and a special character.";

}

return message;

}

//creating a method which checks registration of user

public String registerUser(String username,String password) {

String message3;

String Username = null;

if(checkUsername(Username)){

System.out.println(checkUsernameStatement(true));

String Password = null;

if(checkPasswordComplexity(Password)){

message3="Conditions were met and you are successfully registered";

}

else{message3="Password does not meet the complexity requirements.";}

}

else{message3="Username is correctly formatted";}

return message3;

}

//creating a method which checks login user

public boolean loginUser(String a,String uName,String b, String pWord){

boolean login;

if(a.equalsIgnoreCase(uName))

if(b.equalsIgnoreCase(pWord)){login=true;}

else{System.out.println("Password is incorrect");login=false;}

else{System.out.println("Username is incorrect");login=false;}

return login;

}

//creating a method which returns login status

public String returnLoginStatus(String AA,String uName,String BB, String pWord,String fName,String sName){

String messageF;

if(loginUser(AA,uName,BB,pWord)){

messageF="A successful login:Welcome"+ fName+""+sName+",it is great to see you again.";

JOptionPane.showInputDialog(null,"Enter your First Name"+fName);

JOptionPane.showInputDialog(null,"Enter your Surname Name"+sName);

JOptionPane.showMessageDialog(null,"A successful login:Welcome"+ fName+""+sName+",it is great to see you again.");

}

else{messageF="Login Failed,username or password is incorrect,please try again.";}

JOptionPane.showInputDialog(null,"Login Failed,username or password is incorrect,please try again.");

return messageF;

}

//creating a method which capture login details

public String[]capture\_login\_details(){

boolean success=false;

String[]details=new String[2];

while(success==false){

String cUname=JOptionPane.showInputDialog("Enter username");

if(checkUsername(cUname)){

details[0]=cUname;

JOptionPane.showMessageDialog(null, checkUsernameStatement(true));

success=true;

}

else{JOptionPane.showMessageDialog(null, checkUsernameStatement(false));

}

}

success=false;

while(success==false){

String cPword= JOptionPane.showInputDialog("Enter password");

if(checkPasswordComplexity(cPword)){

details[1]=cPword;

JOptionPane.showMessageDialog(null, checkPasswordStatement(true));

success=true;

}

else{

JOptionPane.showMessageDialog(null, checkPasswordStatement(false));

}

}

return details;

}

public void noReturn(){

}

//creating a main method

public static void main(String[]args){

MyAccountLogin2 myObj=new MyAccountLogin2();

String uname=JOptionPane.showInputDialog(null,"Enter a username");

String pword=JOptionPane.showInputDialog(null, "Enter a password");

String[]mydetails=myObj.capture\_login\_details();

}

}