**Section 4.2**

1

Import java.util.Scanner;

Import java.util.regex.\*;

Public class AccountGenerator {

Public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.println(“Enter your first and last name:”);

String name = scanner.nextLine();

// Regular expression to match a valid first and last name separated by a space

String regex = “^[A-Za-z]+\\s[A-Za-z]+$”;

Pattern pattern = Pattern.compile(regex);

Matcher matcher = pattern.matcher(name);

If (!matcher.matches()) {

System.out.println(“Incorrect format for name”);

} else {

System.out.println(“Name accepted”);

}

Scanner.close();

}

}

2

Import java.util.regex.\*;

Import java.io.\*;

Public class AnswerKeyProblem {

Public static void main(String[] args) throws IOException {

BufferedReader codedAnswers = new BufferedReader(new FileReader(“CodedAnswerKey”));

String line = codedAnswers.readLine();

StringBuilder answers = new StringBuilder();

While (line != null) {

// Regular expression to match a, A, b, B, c, C, d, D, e, E, f, F

If (line.matches(“[aAbBcCdDeEfF]”)) {

Answers.append(line);

}

Line = codedAnswers.readLine();

}

System.out.println(answers.toString());

codedAnswers.close();

}

}

3.

Public static String finalAnswers(String answers) {

Answers = answers.replace(‘e’, ‘b’)

.replace(‘E’, ‘A’)

.replace(‘f’, ‘c’)

.replace(‘F’, ‘D’)

.toLowerCase();

Return answers;

}