Module 3: 4.2

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1.

```
1 package oracle;
 3 import java.util.Scanner;
 5 public class test {
        private final String name;
           private final String username;
           private final String email;
           private String password;
10
           public test() {
11⊜
12
                this.name = setName();
                this.username = setUserName(name);
13
                this.email = setEmail(username);
15
                this.password = setPassword(username);
            }
17
189
           @Override
19
           public String toString() {
20
                       "Name: " + name + "\n" +
21
                       "Username: " + username + "\n" +
22
                       "Email: " + email + "\n" +
                       "Initial Password: " + password;
25
            }
270
           private int countChars(String str, char ch) {
                int count = 0;
                for (int i = 0; i < str.length(); i++) {</pre>
                    if (str.charAt(i) == ch) {
                        count++;
                return count;
```

```
private String setName() {
    Scanner scanner = new Scanner(system.in);
    String name;
    String regez = "^[a-zA-Z]+\\s[a-zA-Z]+$";
    do {
        System.out.print("Enter your full name (first and last name): ");
        name = scanner.nextLine();
        if (lname.matches(regex)) {
            System.out.println("Incorrect format for name. Please enter a first name followed by a spac
        }
    } while (!name.matches(regex));
    return name;
}

private String setUserName(String name) {
    return name.toLowerCase().replace(" ", "");
    }

private String setEmail(String username) {
        String[] parts = username.split("");
        return parts[0] + parts[1] + "@oracleacademy.test";
    }

private String setPassword(String username) {
        String password = username.length() >= 8 ? username.substring(0, 8) : String.format("%-8s", username password = password.replaceAll("[aeiou]", "*");
        char[] passwordchars = password.toCharArray();
    for (int i = 0; i < passwordthars.length; i++) {
        if (Character.isAlphabetic(passwordChars[i])) {
            passwordChars[i] = Character.toUpperCase(passwordChars[i]);
            break;
    }
}</pre>
```

```
}
    return new String(passwordChars);
}

public static void main(String[] args) {
    test employee = new test();
    System.out.println(employee);
}
```

## Output:

```
Enter your full name (first and last name): uday kiran
Employee Details
Name: uday kiran
Username: udaykiran
Email: ud@oracleacademy.test
Initial Password: *D*yk*r*
```

2.

```
package oracle;

import java.util.Scanner;

import java.util.regex.*;

public class test {

public static void main(String[] args) {

String[] codedAnswerLines = {

"1", "A", "x", "b", "!", "c", "3", "e", "6", "D", "9", "F", "z", "f"

};

StringBuilder answers = new StringBuilder();

Pattern pattern = Pattern.compile("[a-fA-F]");

for (String line : codedAnswerLines) {

Matcher matcher = pattern.matcher(line);

if (matcher.find()) {

answers.append(matcher.group());

}

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

}

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

}
```

## Output:

AbCeDFf

3.

```
package oracle;

public class RegeText {

public static void main(String[] args) {

String answers = "AaBbCcDdEeFf";

String finalAnswerKey = finalAnswers(answers);

System.out.println(finalAnswerKey);

public static String finalAnswers(String answers) {

answers = answers.replace('e', 'b')

replace('E', 'A')

replace('f', 'c')

replace('f', 'c')

answers = answers.toLowerCase();

return answers;

return answers;

}
```

## Output:

```
aabbccddabdc
```

Output:

```
a) str.matches(".?anana"):
str = "anana"; matches: true
str = "banana"; matches: true
str = "gabanana"; matches: false

b) str2.matches("[Bb]anana"):
str2 = "banana"; matches: true
str2 = "anana"; matches: false
str2 = "shanana"; matches: false

c) str3.matches(".*anana"):
str3 = "montanana"; matches: true
str3 = "anana"; matches: true
str3 = "_anana"; matches: true
```