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Module 3 4.2 practice programs:

Problem 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;
            public test() {
119
12
                this.name = setName();
13
                this.username = setUserName(name);
                this.email = setEmail(username);
                this.password = setPassword(username);
15
            }
17
180
            @Override
            public String toString() {
19
                return "Employee Details\n" +
                       "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++;
32
                return count;
```

```
}
    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): sripathi maram
Employee Details
Name: sripathi maram
Username: sripathimaram
Email: sr@oracleacademy.test
Initial Password: Sr*p*th*
```

Problem 2:

Output:

AbCeDFf

Problem 3:

```
1 package oracle;
 3 public class RegeText {
         public static void main(String[] args) {
                String answers = "AaBbCcDdEeFf";
                String finalAnswerKey = finalAnswers(answers);
                System.out.println(finalAnswerKey);
            }
12
            public static String finalAnswers(String answers) {
13●
                answers = answers.replace('e', 'b')
                                   .replace('E', 'A')
.replace('f', 'c')
.replace('F', 'D');
17
                 answers = answers.toLowerCase();
                return answers;
24 }
```

Output:

```
aabbccddabdc
```

Problem 4:

```
1 package oracle;
40
       public static void main(String[] args) {
               String[] strValues = {"anana", "banana", "gabanana"};
                System.out.println("a) str.matches(\".?anana\"):");
                for (String str : strValues) {
                    boolean result = str.matches(".?anana");
                    System.out.println("str = \"" + str + "\"; matches: " + result);
               String[] str2Values = {"banana", "anana", "shanana"};
               System.out.println("\nb) str2.matches(\"[Bb]anana\"):");
                for (String str2 : str2Values) {
                    boolean result = str2.matches("[Bb]anana");
System.out.println("str2 = \"" + str2 + "\"; matches: " + result);
               String[] str3Values = {"montanana", "anana", "_anana"};
               System.out.println("\nc) str3.matches(\".*anana\"):");
               for (String str3 : str3Values) {
                    boolean result = str3.matches(".*anana");
System.out.println("str3 = \"" + str3 + "\"; matches: " + result);
```

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
```