

```

1 // Harini. R 192324108
2 //JP section-4 question-1
3 package test;
4
5 import java.util.Scanner;
6
7 public class Employee {
8     private final String name;
9     private final String username;
10    private final String email;
11    private String password;
12
13    public Employee() {
14        this.name = setName();
15        this.username = setUsername(name);
16        this.email = setEmail(username);
17        this.password = setPassword(username);
18    }
19    @Override
20    public String toString() {
21        return "Employee Details\n" +
22            "Name : " + name + "\n" +
23            "Username : " + username + "\n" +
24            "Email : " + email + "\n" +
25            "Initial Password : " + password;
26    }
27    private int countChars(String str, char ch) {
28        int count = 0;
29        for (int i = 0; i < str.length(); i++) {
30            if (str.charAt(i) == ch) {
31                count++;
32            }
33        }
34        return count;
35    }
36    private String setName() {
37        Scanner scanner = new Scanner(System.in);
38        String name;

```

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39     int count;
40     do {
41         System.out.print("Enter your full name (first and last name): ");
42         name = scanner.nextLine();
43         count = countChars(name, ' ');
44     } while (count != 1);
45     return name;
46 }
47 private String setUserName(String name) {
48     return name.toLowerCase().replace(" ", ".");
49 }
50 private String setEmail(String username) {
51     String[] parts = username.split("\\.");
52     return parts[0].charAt(0) + parts[1] + "@oracleacademy.Test";
53 }
54 private String setPassword(String username) {
55     String password = username.length() >= 8 ? username.substring(0, 8) : String.format("%-8s", username).replace(' ', '*');
56     password = password.replaceAll("[aeiou]", "*");
57     char[] passwordChars = password.toCharArray();
58     for (int i = 0; i < passwordChars.length; i++) {
59         if (Character.isAlphabetic(passwordChars[i])) {
60             passwordChars[i] = Character.toUpperCase(passwordChars[i]);
61             break;
62         }
63     }
64     return new String(passwordChars);
65 }
66
67 public static void main(String[] args) {
68     Employee employee = new Employee();
69     System.out.println(employee);
70 }
71 }
72

```

Problems @ Javadoc Declaration Console × Coverage Error Log

<terminated> Employee [Java Application] C:\Users\harin\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v20240426-11

Enter your full name (first and last name): harini raja

Employee Details

Name : harini raja

Username : harini.raja

Email : hraja@oracleacademy.Test

Initial Password : H*r*n*.r

```
1 // Harini. R 192324108
2 //JP section-4 question-2
3 public class StringReverser {
4     public String reverse(String str) {
5         String strRev = "";
6         for (int i = str.length() - 1; i >= 0; i--) {
7             strRev += str.charAt(i);
8         }
9         return strRev;
10    }
11    public static void main(String[] args) {
12        StringReverser reverser = new StringReverser();
13        String original = "Java Programming";
14        String reversed = reverser.reverse(original);
15        System.out.println("Original: " + original);
16        System.out.println("Reversed: " + reversed);
17    }
18 }
19
```

input

Original: Java Programming
Reversed: gnimmargorP avaJ

```
1 // Harini. R 192324108
2 //JP section-4 question-5
3 public class StringvsBuilder {
4     public static void main(String[] args) {
5         String str1 = "Hello";
6         StringBuilder str2 = new StringBuilder("Hello");
7         System.out.println(str1 + " " + str1.hashCode());
8         System.out.println(str2.toString() + " " + str2.hashCode());
9         str1 = str1+ "World";
10        str2.append("World");
11        System.out.println(str1 + " " + str1.hashCode());
12        System.out.println(str2.toString() + " " + str2.hashCode());
13    } //end method main;
14 } //end class StringvsBuilder
```

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Hello 69609650
Hello 1712536284
HelloWorld 439329280
HelloWorld 1712536284

input

```
1 // Harini. R 192324108
2 //JP section-4 question-6
3 public class StringReverser2 {
4     public String reverse(String str) {
5         StringBuilder sb = new StringBuilder(str);
6         sb.reverse();
7         return sb.toString();
8     }
9     public static void main(String[] args) {
10         StringReverser2 reverser = new StringReverser2();
11         String original = "Java Programming";
12         String reversed = reverser.reverse(original);
13         System.out.println("Original: " + original);
14         System.out.println("Reversed: " + reversed);
15     }
16 }
17
```

input

Original: Java Programming
Reversed: gnimmargorP avaJ