Jade Pearl

Example 1: Day of the week

1. Source Code

```
■ DayOfWeek.java ≅
 1 import java.util.Scanner;
    public class DayOfWeek {
 4
 5⊜
        public static void main(String[] args) {
            // TODO Auto-generated method stub
 6
            System.out.print("Input a number between 1 and 7.");
 7
            Scanner keyboard = new Scanner (System.in);
 8
            int num = keyboard.nextInt();
10
            keyboard.close();
11
12
            if (num == 1) {
13
                System.out.println ("The day is Monday.");
14
15
            else if (num == 2) {
                System.out.println("The day is Tuesday.");
16
17
18
            else if (num == 3) {
19
                System.out.println("The day is Wednesday.");
20
            else if (num == 4) {
21
22
                System.out.println("The day is Thursday.");
23
            }
            else if (num == 5) {
24
25
                System.out.println("The day is Friday.");
26
            else if (num == 6) {
27
28
                System.out.println("The day is Saturday.");
29
            else if (num == 7) {
30
31
                System.out.print("The day is Sunday.");
32
33
            else {
34
                System.out.println("INVALID DAY NUMBER");
35
36
37
        }
38
39 }
```

2. Output

Example 2: Age Classifier

1. Source Code

```
☑ AgeClassifier.java 
☒
 1 import java.util.Scanner;
 3 public class AgeClassifier {
 4
 5⊝
        public static void main(String[] args) {
            // TODO Auto-generated method stub
 6
            System.out.println("Please enter an age.");
 7
 8
            Scanner keyboard = new Scanner (System.in);
 9
            int age = keyboard.nextInt();
10
            keyboard.close();
11
12
            if (age <= 1) {
13
                 System.out.println("He or she is an infant");
14
15
            else if (age < 13) {</pre>
16
                System.out.println("He or she is a child");
17
18
            else if (age < 20) {
                System.out.println("He or she is a teenager");
19
20
21
            else {
22
                System.out.println("He or she is an adult");
23
            }
24
        }
25 }
```

2. Output

Problems @ Javadoc ♣ Declaration ➡ Console <terminated > AgeClassifier [Java Application] C:\User Please enter an age.

20
He or she is an adult

Example 3: Magic Dates

1. Source Code

```
☑ MagicDates.java 
☒
 1 import java.util.Scanner;
 2
    public class MagicDates {
 4
 5⊜
        public static void main(String[] args) {
            // TODO Auto-generated method stub
 6
 7
            Scanner keyboard = new Scanner (System.in);
 8
            System.out.println("Enter the numeric form of a month.");
 9
            int month = keyboard.nextInt();
10
            System.out.println("Enter a day.");
            int day = keyboard.nextInt();
11
12
            System.out.println("Enter the last two digits of the year");
13
            int year = keyboard.nextInt();
14
            keyboard.close();
15
            if (year == day * month) {
16
17
                System.out.println("This date is magic!!");
18
19
            else {
                System.out.println("This date is not magic.");
20
21
            }
22
23 }
```

2. Output

```
Problems @ Javadoc  □ Declaration □ Console  □ Problems @ Javadoc □ Declaration □ Console  □ Conso
```

Example 4: Color Mixer

1. Source Code

```
☑ ColorMixer.java 
☒

 1 import java.util.Scanner;
 3 public class ColorMixer {
 5⊜
        public static void main(String[] args) {
 6
            // TODO Auto-generated method stub
 7
            Scanner keyboard = new Scanner (System.in);
            System.out.println("Please enter the first letter of two colors (in CAPS).");
 8
 9
            char color1 = keyboard.next().charAt(0);
10
            char color2 = keyboard.next().charAt(0);
11
            keyboard.close();
12
13
            if ((color1 == 'R') && (color2 == 'B') || (color1 == 'B') && (color2 == 'R')) {
                System.out.println("The color is Purple");
14
15
            else if ((color1 == 'R') && (color2 == 'Y') || (color1 == 'Y') && (color2 == 'R')) {
16
17
                System.out.println("The color is Orange");
18
19
            else if ((color1 == 'B') && (color2 == 'Y') || (color1 == 'Y') && (color2 == 'B')) {
20
                System.out.println("The color is Green");
21
            }
22
            else {
23
                System.out.println("ERROR. Invalid color character.");
24
25
        }
26
27 }
```

2. Output

Problems @ Javadoc ☑ Declaration ☑ Console ☒
<terminated > ColorMixer [Java Application] C:\Users\jpmd1\Desktop\Prog
Please enter the first letter of two colors (in CAPS).

Y
B
The color is Green