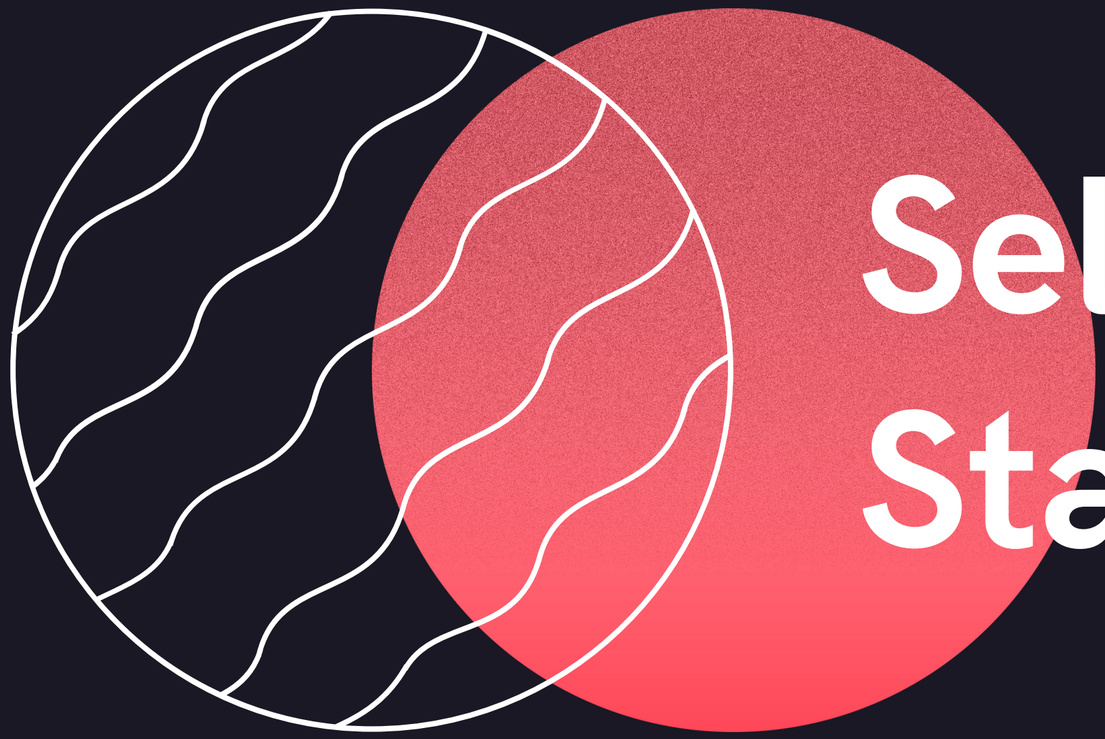


Selection Statements

Java Types and Arithmetic Programs

06

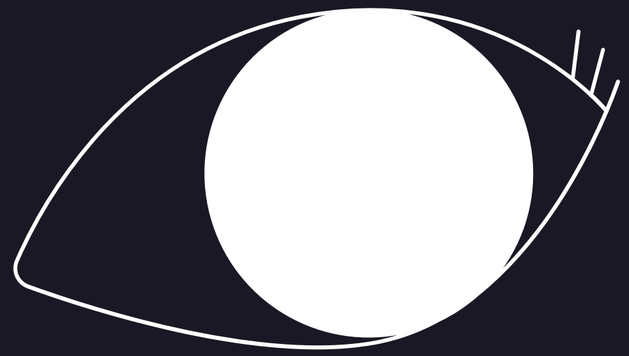
REVIEW OF LECTURES/TODAY'S AGENDA

Boolean Operators:

- And
- Or
- Not
- Equals
- XOR(not discussed)

If, else if, else
Nested selections.

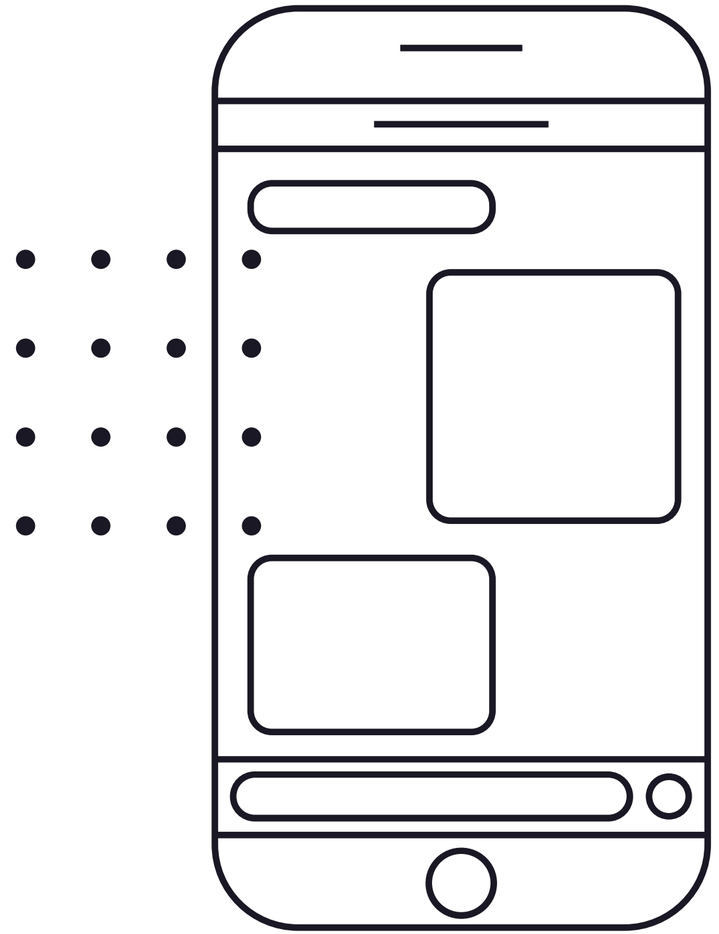
Switch statements



LETS CODE TOGETHER

WE WILL CONTINUE TO BUILD ON THE WEATHER PROJECT

Don't worry if you don't have the code from last week. This file is a little different.



WE WANT TO EXTEND OUR APP SO THE USER DOES NOT NEED TO INTERPRET THE RESULTS.

WE WILL USE IF,ELSE IF, AND ELSE STATEMENTS TO PRINT TO THE USER A STRING LIKE "IT IS COLD".

```
int fahrenheit = (int) ((celsius * 9 / 5.0) + 32);
double windSpeed = wp.getWindSpeed();
int humiditity = wp.getHumidity();
String cloudCondition = wp.getCloudCondition();
```

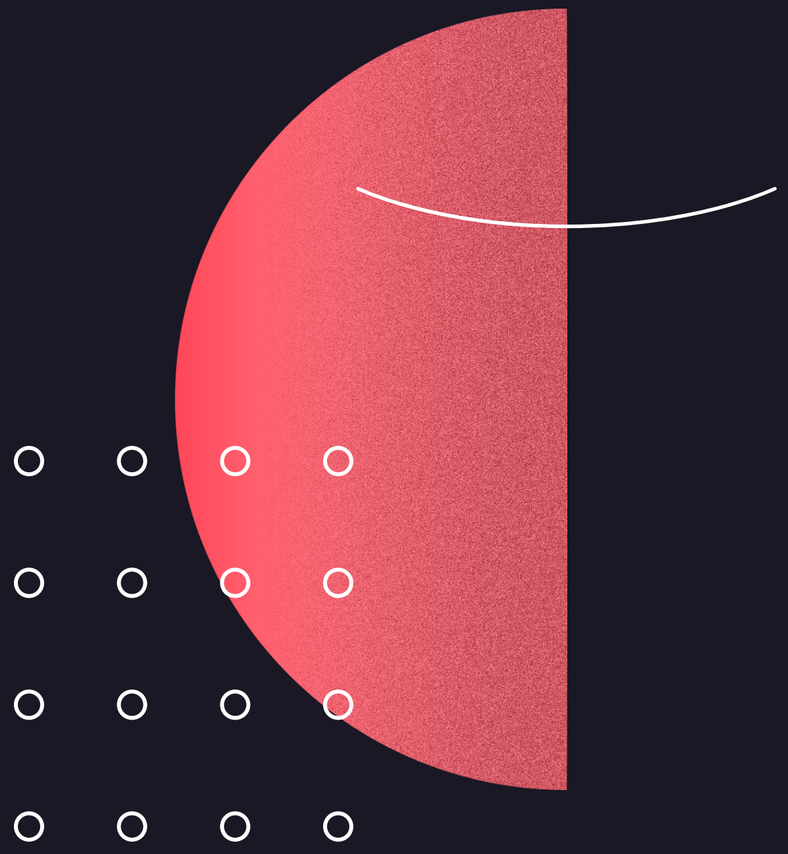
You are given the temperature, wind speed, humidity, and general condition (cloudy, snow, light rain, etc).

Write some if statements to print results to user. You have some freedom here. Don't waste too much time though.

```
if (fahrenheit < 32) {
    if (windSpeed > 10 && humiditity > 50) {
        System.out.println("It is freezing, windy ,and damp outside.");

    } else if (windSpeed > 10 && humiditity < 50) {
        System.out.println("It is freezing and windy outside.");
    } else {
        System.out.println("It is freezing, but the wind speed is less than 10 mph.");
    }
```

```
} else if (fahrenheit < 60) {//why do I not need to put fahrenheit > 32 && fahrenheit < 60?
    if (windSpeed > 10 && humiditity > 50) {
        System.out.println("It is cold, windy, and damp outside.");
    } else if (windSpeed > 10 && humiditity < 50) {
        System.out.println("It is cold and windy outside.");
    } else {
        System.out.println("It is cold");
    }
} else {//fahrenheit > 60
    System.out.println("It is nice");
}
System.out.println("The cloud condition is " + cloudCondition);
```



Now you code! Worksheet of problems to be emailed to you.Please let me know if you need help!