

A decorative network diagram in the top-left corner featuring a complex web of interconnected nodes. Some nodes are represented by solid blue circles, while others are open circles with blue outlines. The nodes are connected by thin, light gray lines, creating a dense, organic structure.

# Java Conditions

A decorative network diagram in the bottom-right corner, similar to the one in the top-left. It shows a cluster of nodes connected by lines, with some nodes highlighted in blue (solid or outlined) and others in gray (solid or outlined).

# Hello!

**I am Sayyid Mohammad  
Reza Ayazi**

**B.Sc. Computer Engineering  
M.A Industrial Management  
Supply Chain  
smrayazi@gmail.com**



# Conditions

- ◎ Java has the following conditional statements:
  - Use **if** to specify a block of code to be executed, if a specified condition is true
  - Use **else** to specify a block of code to be executed, if the same condition is false
  - Use **else if** to specify a new condition to test, if the first condition is false
  - Use **switch** to specify many alternative blocks of code to be executed

# The if Statement

```
if (condition) {  
    // block of code to be executed if the condition is true  
}
```

```
int x = 20;  
int y = 18;  
if (x > y) {  
    System.out.println("x is greater than y");  
}
```

# The else Statement

```
if (condition) {  
    // block of code to be executed if the condition is true  
} else {  
    // block of code to be executed if the condition is false  
}
```

```
int time = 20;  
if (time < 18) {  
    System.out.println("Good day.");  
} else {  
    System.out.println("Good evening.");  
}  
// Outputs "Good evening."
```

# The else if Statement

```
if (condition1) {  
    // block of code to be executed if condition1 is true  
} else if (condition2) {  
    // block of code to be executed if the condition1 is false and condition2  
} else {  
    // block of code to be executed if the condition1 is false and condition2  
}
```

```
int time = 22;  
if (time < 10) {  
    System.out.println("Good morning.");  
} else if (time < 20) {  
    System.out.println("Good day.");  
} else {  
    System.out.println("Good evening.");  
}  
// Outputs "Good evening."
```

## Short Hand If...Else

```
variable = (condition) ? expressionTrue : expressionFalse;
```

```
int time = 20;
```

```
String result = (time < 18) ? "Good day." : "Good evening.";
```

```
if (time < 18) {  
    System.out.println("Good day.");  
} else {  
    System.out.println("Good evening.");  
}
```



# Java Switch Statements

```
switch(expression) {  
    case x:  
        // code block  
        break;  
    case y:  
        // code block  
        break;  
    default:  
        // code block  
}
```

```
int day = 4;
switch (day) {
    case 1:
        System.out.println("Monday");
        break;
    case 2:
        System.out.println("Tuesday");
        break;
    case 3:
        System.out.println("Wednesday");
        break;
    case 4:
        System.out.println("Thursday");
        break;
    case 5:
        System.out.println("Friday");
        break;
}
```

```
int day = 4;
switch (day) {
    case 6:
        System.out.println("Today is Saturday");
        break;
    case 7:
        System.out.println("Today is Sunday");
        break;
    default:
        System.out.println("Looking forward to the Weekend");
}
// Outputs "Looking forward to the Weekend"
```

A decorative network diagram in the top-left corner, featuring a complex web of interconnected nodes and lines. Some nodes are highlighted with blue circles, and others with solid blue dots. The lines are thin and gray, creating a mesh-like structure.

# Anylogic

A decorative network diagram in the bottom-right corner, similar to the one in the top-left. It shows a cluster of nodes connected by lines, with several nodes highlighted in blue to match the overall design theme.

# sample

◎ Please solve quadrature equation

$$x_2 \leftarrow \frac{-b + \sqrt{\text{delta}}}{2a}$$

$$x_1 \leftarrow \frac{-b - \sqrt{\text{delta}}}{2a}$$



# Thanks!

## Any questions?

You can find me at:  
[smrayazi@gmail.com](mailto:smrayazi@gmail.com)