

Conditional and Jump Statements

January 2, 2025

```
[1]: // If Statement
val temperature = 15

if (temperature >= 20) {
  println("It's a warm day.")
} else {
  println("It's a cold day.")
}
```

It's a cold day.

temperature = 15

[1]: 15

```
[2]: // If-Else Chained
val grade = 75

if (grade >= 90) {
  println("Excellent!")
} else if (grade >= 75) {
  println("Good Job!")
} else if (grade >= 50) {
  println("Needs Improvement.")
} else {
  println("Fail.")
}
```

Good Job!

grade = 75

[2]: 75

```
[3]: val language = "Scala"

language match {
  case "Java" => println("The language is Java.")
}
```

```

case "Scala" => println("The language is Scala.")
case "Python" => println("The language is Python.")
case _ => println("Unknown language.")
}

```

The language is Scala.

language = Scala

[3]: Scala

```

//////////////////////////////////////      HERE      ARE      THE      JUMP      OPERATIONS:
//////////////////////////////////////

```

```

[4]: // Return Statement
def multiply(a: Int, b: Int): Int = {
  return a * b // Returning the product
}

val product = multiply(6, 7)
println(s"Product: $product")

```

Product: 42

product = 42

multiply: (a: Int, b: Int)Int

[4]: 42

```

[5]: import scala.util.control.Breaks._

breakable {
  for (i <- 1 to 10) {
    if (i == 7) break() // Exit the loop when i is 7
    println(s"Current number: $i")
  }
}

```

Current number: 1

Current number: 2

Current number: 3

Current number: 4

Current number: 5

Current number: 6

```

[6]: // Do-While Loop
var counter = 3

```

```
do {  
  println(s"Counter value: $counter")  
  counter -= 1  
} while (counter > 0)
```

Counter value: 3

Counter value: 2

Counter value: 1

counter = 0

[6]: 0

[]: