if-else statement in Kotlin

You already know that `if` is a statement which executes a set of statements based on condition. But in Kotlin, `if` can be used as statement and expression.

Syntax of if-else as a statement

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

Example

```
public fun main(args: Array<String>) {
    var a: Int = 30;
    var b: Int = 20;
    if(a>b){
            print("a is greater than b");
    }else{
            print("b is greater than a");
    }
}
```

Output

```
a is greater than b
```

if-else as an Expression

An expression is a statement that evaluates to a value. In Kotlin, *if...else* control statement is expression. It means you can do three things with this features-

1. You can assign the value to a variable.

```
public fun main(args: Array<String>) {
    var a=12
    var b=14
    var max = if(a > b) a else b
    print(max)
}
```

2. You can return from a function.

```
fun max(): Int{
    return if(14 > 12) 14 else 12
}
public fun main(args: Array<String>) {
    var i: Int = max()
    print(i)
}
```

3. You can pass it as an argument to a function.

```
fun max(a: Int){
    print(a)
}
public fun main(args: Array<String>) {
    var i: Int = 10
    max(if(i>10) 12 else 14)
}
```

Note- When you use *if...else* statement as an expression, make sure you include else clause. If you forget to write else clause then you will get a compilation error.
Also, remember on thing, you can also use try...catch statement as an expression.