Expressions and Conditionals

1. What does the following code print?

```
var number = {
    val x = 2 * 2
    x + 40
}
println(number)
```

2. What does the following code print?

```
var t = {
  var first = "katy"
  "perry"
}
println(t)
```

3. What does the following code print?

```
val source = "hotline"
val target = {
  source
}
println(target)
```

4. What does the following code print?

```
val band = {
  val name = "sublime"
  name
}
println(name)
```

5. What does the following code print?

```
if (10 > 2) {
    println("ten is greater than two")
}
```

6. What does the following code print?

```
if (10 > 2) println("ten is greater than two")
```

7. What does the following code print?

```
if (5 != 5) println("not equal") else println("they're equal!")
```

8. What does the following code print?

```
if (true) {
  "it is true"
} else {
  "i'm confused"
}
```