Variables in Kotlin

As you all know, a variable is a container that is used for storing value. In Kotlin, you can declare variables using two keywords-

- **val keyword**
- **var keyword**

val Keyword in Kotlin

val keyword is used to create a read-only variable. Variable created using *val* keyword is equivalent to a final variable in Java. You must initialize variable at the time of creation.

Syntax

```
val variable_name = value
OR
val variable_name: DataType = value
```

When data type of a variable is not specified, then its data type is inferred from the value assigned to it.

Example

```
val numberofballs = 6
numberofballs = 8 // It will give compile-time error
```

As you can see above, when we try to change the value of numberofballs variable it will give compilation error.

var Keyword in Kotlin

If you want to create a variable whose value can be changed to another value simply by reassigning it, then use *var* keyword.

Syntax

```
var variable_name: DataType
OR
var variable_name: DataType = value
OR
var variable_name = value
```

Example

```
var numberofballs = 6
numberofballs = 8
```

Note- Initializing variable at the point of creation is optional. Example-
var mobile: String
mobile = "Samsung Galaxy"