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## SCALA DATA TYPES: HANDS ON LAB

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By [www.HadoopExam.com](http://www.HadoopExam.com)

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### Topics

1. Scala val, var and literal
2. Scala Numeric Data types
3. String and Multi-line string
4. String Interpolation
5. Scala Tuple

### Value Assignment (Scala infer the datatype as well)

```
val x="Hello"
```

### Value Re-assignment Error

```
x=1000
```

### Literal Use

```
scala> 100  
res0: Int = 100  
  
scala> res0  
res1: Int = 100
```

### Variable Re-assignment is possible

```
var x="Hello"  
  
x="Welcome"
```

### Explicitly giving datatype: Scala values will always have datatypes.

```
scala> val y=100
```

### Giving wrong datatype

```
scala> val x:Int="Hello"  
<console>:7: error: type mismatch;  
found   : String("Hello")
```

```
required: Int
```

```
val x:Int="Hello"
```

```
^
```

**In Scala, you should avoid Variables. (It should not be used until it is absolutely necessary)**

**General use of variables:** in those places where variables are more suitable, such as local variables that store temporary data or accumulate values in loops, variables will certainly be used.

During re-assignment, you cannot change the datatype of variable.

```
scala> var x="Hello"
```

```
x: String = Hello
```

```
scala> x=100
```

```
<console>:8: error: type mismatch;
```

```
found   : Int(100)
```

```
required: String
```

```
x=100
```

```
^
```

**However, this is allowed. Why?**

```
scala> var x:Double=100
```

```
x: Double = 100.0
```

```
scala> x=101
```

```
x: Double = 101.0
```

**Scala Data types (Numeric)**

Byte (1) -> Short (2) -> Int (4) -> Float (4) -> Long (8) -> Double(8)

Numeric datatype can be automatically converted to higher order data types. But higher rank to lower rank is not supported.

```
scala> val x:Double=101
x: Double = 101.0

scala> val y:Float=x
<console>:8: error: type mismatch;
found   : Double
required: Float
    val y:Float=x
        ^
```

### **String datatypes:**

```
scala> val x="Hello"
x: String = Hello
```

### **Multiline String**

```
scala> val x="""Hello
| And Welcome
| to """
x: String =
"Hello
And Welcome
to "
```

### **String Comparison**

```
scala> val x="Hello"
```

```
x: String = Hello
```

```
scala> val y="Hello"
```

```
y: String = Hello
```

```
scala> val z="hello"
```

```
z: String = hello
```

```
scala> x==y
```

```
res1: Boolean = true
```

```
scala> x==z
```

```
res2: Boolean = false
```

**String Interpolation:** Replacing variables in string.

```
scala> val x=100
```

```
x: Int = 100
```

```
scala> val y=s"Your daily cash salary will be ${x}"
```

```
y: String = Your daily cash salary will be 100
```

**Numeric values with decimal point.**

```
scala> val x=111.55554
```

```
x: Double = 111.55554
```

```
scala> val y=f"Your daily cash salary will be ${x}%2.2f"
```

```
y: String = Your daily cash salary will be 111.56
```

Tuple

```
scala> val t1 = ("Hello","AND","Welcome", "your", "salary" ,100,'@')
```

```
scala> t1._1
```

```
res4: String = Hello
```

```
scala> t1._6
```

```
res7: Int = 100
```

**Another way to create tuple**

```
scala> val t2 = ("Amit"->1000)
```

```
scala> t2
```

```
res8: (String, Int) = (Amit,1000)
```

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