**Variables and datatypes**

**YouTube link:**

<https://www.youtube.com/watch?v=oQxsTfT0fSw>

**Example 1:**

*// data types  
// Numeric Datatypes***var** v1:Byte = 12 *// 1 - byte = 8 bits***var** v2:Short= 1342 *// 2 - bytes = 16 bits***var** v3:Int= 1242 *// 4 - bytes = 32 bits***var** v4:Long= 442L *// 8 - bytes = 64 bits  
  
// for numbers with decimals***var** v5:Float = 42.12f *// 4 - bytes = 32 bits***var** v6:Double = 442.12 *// 8 - bytes = 64 bits  
  
// alphabets or characters***var** v7:Char = **'a'** *// 2 - bytes***var** v8:String = **"Muhammad Jawwad"***//boolean - (true or false)***var** v9:Boolean = **true  
var** v10:Boolean = **false**

**Example 2:**

*// print a variable***var** name:String = **"Muhammad"  
var** age:Int = 16  
**var** university:String = **"ABC university"***println*(**"My name is : "**+name)  
*println*(**"My universoty is : "**+university)  
*println*(**"My age is : "**+age)

**Example 3:**

*// print a variable*

**var** name:String = **"Muhammad"  
var** age:Int = 16  
**var** university:String = **"ABC university"***println*(**"My name is : $**name**"**)  
*println*(**"My universoty is : $**university**"**)  
*println*(**"My age is : $**age**"**)

**Example 4:**

*// print a variable  
// val is constant - we cannot change the value of val***val** gravity:Float = 9.8f  
**var** pi:Float = 3.142f  
  
*println*(**"Value of gravity : $**gravity**"**)  
*println*(**"Value of pi : $**pi**"**)