Kotlin

Const and variable

var a = 6 -> can changing

Val b = 8 -> cannot changing

Data Types

String – Int - Float

Double - Char – Boolean

Ex: var a : Int = 10

Print

Print()
Println()

Read from User

val name = readLine()

Operations

```
*,/, +, -
+=,-=,*=,/=
++,--
```

Conditions

```
If (condition happen) {
Do your program
}
else (condition not happen) {
Do your program
}
```

when likes switch

```
when(something) - >optional {
Case1 -> {
Do your program
}
Case2 {
Do your program
}
else -> default
{
Do your program
}
}
```

Loops

```
For (something in 1...9) -> useful when we know the limit will be stop

{

Do your program
}

While (something happens)

-> useful when we not know the limit will be stop

{

Do your program
}
```

Error handling

try {

Do your program OOP } class Person(val name: String){ catch (e: Exception) fun introduction(){ println("Hi, my name is \$name") Write error message appear to user } abstract class Vehicle{ Random number from 0-10 var color = "Blue" val num=Random.nextInt(11) abstract fun doors() **Functions** } fun sayHi(){ class FamilyCar: Vehicle(){ println("Hi") override fun doors() { println("This car has 4 doors") } fun add(num1: Int): Int{ } return **Android Studio** } **Using the Console Lists and Arrays** Log.d("name of page", "print Somthing") x= listOf("Fluffy", "Snoopy") Use UI object pets = arrayOf("Fluffy", "Snoopy") lateinit var text: TextView **ArrayLists** text = findViewById(R.id.textView) val shoppingList = ArrayList() shoppingList.add("Eggs") shoppingList.remove("Milk") Xml android:backgroundTint= **2D ArrayLists** "#F2F2F2" x = arrayListOf<ArrayList<String>>() android:ems="10" android:hint="Name" **Dictionaries**

android:textColor="#F2F2F2"

mapOf(1 to "Sara", 2 to "Jim", 3 to "Jane")

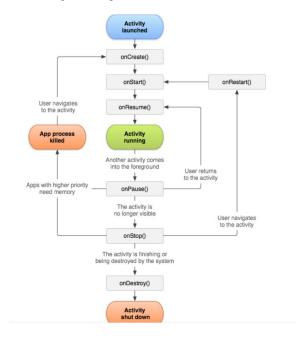
```
android:inputType=
"textPersonName"
android:textColorHint=
"#F2F2F2"
android:textSize="30dp"
android:textStyle="bold"
```

Snackbar

To display message for user

```
Var myLayout = findViewById<ConstraintLayout>(R.id.clMain)
Snackbar.make(myLayout, lmst: "Hello there, welcome to my appl", Snackbar.LENGTH_LONG).show()
)
```

Activity Lifecycle



We can access the remaining states of our activity by overriding the following methods; onStart(), onResume(), onPause(), onStop(), and onDestroy().