Kotlin

Data Types and Declaration-

```kotlin
fun main(args: Array<String>) {
    val a: Int = 10000
    val d: Double = 100.00
    val f: Float = 100.00f
    val l: Long = 1000000004
    val s: Short = 10
    val b: Byte = 1
    val String : String  = "I am escaped String!\n"

    println("Int Value is " + a)
    println("Double  Value is " + d)
    println("Float Value is " + f)
    println("Long Value is " +l )
    println("Short Value is " + s)
    println("Byte Value is " + b)

}
```

Conditional Statements-

If else-

```kotlin
val number = -50

val result = if (number > 0) {

"Positive number"

}

else {

"Negative number"

}

return result
```

Loops-

Repeat-

repeat(2) { println("Hello World") }

For-

for (variableDeclaration 'in' expression) {

// block of statements

}

While-

var counter = 0

while (counter < 5) {

println("while loop counter: " + counter++)

}

Input Methods-

```
fun main(args: Array) {
    println("Enter a string :")
    val userInputString = readLine()

    println("You have entered : $userInputString")
}
```

Arrays-

```
val fruits = arrayOf("Apple", "Mango", "Banana", "Orange")

val num = intArrayOf(1, 2, 3, 4)

fun main(args: Array<String>) {
  val fruits = arrayOf<String>("Apple", "Mango", "Banana", "Orange")

  println( fruits.get(0))
  println( fruits.get(3))

  // Set the value at 3rd index
  fruits.set(3, "Guava")
  println( fruits.get(3))
}
```