# Kotlin basic

Monday, September 5, 2022          9:40 AM

**Main Function:**

fun main(){}

    We need a main function in kotlin file . We can call other functions inside the main function

**Print Hello World :**

```
fun main() {
    println("Hello, world!!!")
}
```

```
Hello, world!!!
```

**Variable Declaration:**

    There are two types of variables declarations
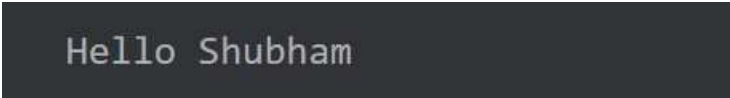        -var
        -val

    var allows to change the value. val does not allow to change the value of the variable.
    var is val but with added functionality of redeclaring the value.

    val a="Shubham"

Working with variable:

    print("Hello $a")
        Kotlin method for String concatenation of variable with the string .

```
Hello Shubham
```

**Comments in Kotlin:**

    Single line comment
        //

    Multi line comment

```
/*

*/
```

**Data types of Kotlin:**

**INT**

Byte (8 bit)
Short (16 bit)
Int(32 bit)
long(64 bit)

val marks:Int = 30

FLOAT

float 32 bit
double 64 bit

Char

String

Boolean

True and false

INFERENCE

Kotlin guessing the data type for user.
In inference declaration it gives a error if we donot initilize the value to the declaration.
Inference will not optimise the code. It may assign the bigger space data type.

val name="aaa"

By default :
Int for integer values
Double for decimal values