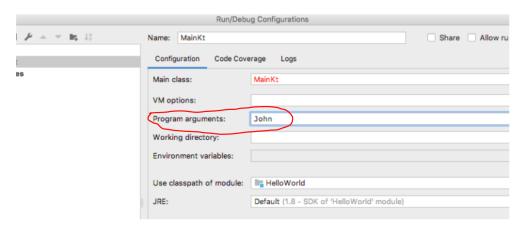
To input Command line arguments

Run -> Edit Configurations

Add the command line parameters in Program arguments as shown below and click apply. In this case, we have added a name "John".



Kotlin Data Types

```
// Mutable Data - var
var a: Int = 3 // Variables
var b = 6 // No need to specify the type. Kotlin infer the type from the value
println(a + b)
// Declaring various number types
  val doubleNum: Double = 123.45 //64 bit number
  val floatNum: Float = 123.45f // 32 bit
  val longNum = 1237819283712L // 64 bit
// String
 //Declaring String
var name: String = "Kotlin" // Constant
  var hero: String
  hero = "batman"
  println(hero)
  hero = "superman"
  println(hero)
```

```
//Boolean
// Declaring Boolean
 var isAwesome:Boolean = true
  println("Is " + name + " awesome? The answer is : " + isAwesome)
// Declaring Constants – Immutable – Val
val value = 3.14959265358979323
Multiline Strings
val x: String = """Kotlin
       supports
       Multiline
       Strings"""
val x: String = """ | Kotlin
       supports
       |Multiline
       |Strings""".trimMargin()
val name : String = "Kotlin" // Constant
// name = name + " " + "Programming"
// String Template and Calling String methods
var x = "Kotlin"
println("Hello " + x )
println("Hello $x" )
val luke = "Luke Sky walker"
val lightSaberColor = "green"
val vehicle = "land speeder"
val age = 27
// Null Check
var username : String = "Anne Mathew"
//username = null
var nullableusername : String? = "Anne Mathew"
// nullableusername = null
```

```
// Traditional Approach
val 1 = if (nullableusername != null) nullableusername.length else -1
println(1)
// Safe Call operator – Do the functionality if not null, otherwise return null
println(nullableusername?.length)
// Print default value if null – Elvis operator ?:
val len = nullableusername?.length ?: -1
println(len)
val nousername = nullableusername ?: "No one knows me..."
println(nousername)
//!! Assertion Operator
var nodata : String? = "Hello"
    println(nodata?.length)
// nodata = null;
    //Not Null Assertion - !! ( Recommended to use only the input is not null)
// println(nodata!!.toUpperCase())
// Functions
fun main(args: Array<String>) {
    val count = 5
    fun displayString() {
        for (index in 1..count) {
            println("Java")
        }
    }
// Calling the function
    displayString()
}
// Var args
fun main(args: Array<String>) {
    dStrings("one", "two", "three", "four")
   }
fun dStrings(vararg strings: String){
    for (string in strings) {
        println(string)
    }
}
```

```
fun main(){
   // Valid calls
   var message = bmsg("Jack",50)
   println(message)
   message = bmsg("Jack")
   println(message)
   // Pass with argument name
   message = bmsq(count = 10) // Valid
 // message = bmsg(10) // Inalid
fun bmsg(name: String = "Customer", count: Int = 0): String {
   return("$name, you are customer number $count")
}
// Single Expression Function
fun main(){
println(sum(5,6))
   println(sum1(5,6))
   println(sum2(5,6))
}
// Regular Approach
fun sum(x:Int, y:Int) : Int{
   return x + y
// Kotlin Approach 1
fun sum1(x:Int, y:Int) : Int = x + y
// Kotlin Approach 2
fun sum2(x:Int, y:Int) = x + y
// Default Constructor
Person.kt
class Person {
     override fun toString(): String {
```

// Default arguments

TestPerson.kt

var p1 = Person()

```
var p2 = Person()
p1.age = 50;
p1.name = "Tom"
  println(p1)
  p2.age = 30;
  p2.name = "Vina"
  println(p2)
}
```

```
Class Person{
Person( String name, int age ){
This.name = name;
This.age = age;
}
Person(String name, int age, String Prof){
 This(name, age);
This.prof = prof;
}
class MyParentClass {
int myProperty
MyParentClass(int myProperty){
this. myProperty = property;
}
}
class MySubClass extends MyParentClass {
MySubClass(int myProperty) {
super(myProperty)
}
}
class MySubClass(myProperty: Int) : MyParentClass(myProperty) {
}
```

Replace of void in Kotlin

```
Unit is an analogue of void in Java
fun f(): Unit {
    println("Nothing return can use Unit similar like Void")
}
// If there is no return type mentioned work as void
fun f1() {
    println("No return type similar like Void")
}

The Nothing type is used as a return type of functions that don't terminate normally.
fun fail (message: String): Nothing
{ throw
IllegalStateException (message)
}
```