**Lab 4- Extension Functions in Kotlin**

Below is a lab exercise on Extension Functions in Kotlin. This exercise focuses on creating extension functions to enhance existing classes.

// Lab Exercise: Extension Functions in Kotlin

// A sample class to demonstrate extension functions

class Circle (val radius: Double){

// member function of class

fun area(): Double{

return Math.PI \* radius \* radius;

}

}

fun main(){

// Extension function created for a class Circle

fun Circle.perimeter(): Double{

return 2\*Math.PI\*radius;

}

// create object for class Circle

val newCircle = Circle(2.5);

// invoke member function

println("Area of the circle is ${newCircle.area()}")

// invoke extension function

println("Perimeter of the circle is ${newCircle.perimeter()}")

}

This exercise is designed to reinforce your understanding of extension functions in Kotlin.