

```

package com.example.mobile_device.lab

import com.example.mobile_device.lablandass1.displayBorder

data class Subject(val id:String, val name:String, val credit:Int)

open class Person(fName: String, lName: String, deptName:String) {
    val firstName:String
    val lastName:String
    protected val department:String

    init {
        firstName = fName.replaceFirstChar { it.uppercase() }
        lastName = lName.replaceFirstChar { it.uppercase() }
        department = "$deptName, College of Computing"
    }

    open fun showDetail(){
        println("$firstName is at $department.")
    }

    companion object{
        fun showCompanion(fist_Name:String, last_Name:String, age:Int){
            println("Person is called from companion object : $fist_Name
$last_Name is $age years old")
        }
    }
}

class Teacher(fName: String, lName:
String, deptName:String, year:Int): Person(fName, lName, deptName) {
    private var salary: Int=0
    private val yearClass:Int=year
    private var creditClass:Int=0

    override fun showDetail(){
        println("$firstName is a teacher for $yearClass years at
$department.")
    }

    fun calSalary(){
        when{
            yearClass<5 -> salary =25000+(2000*yearClass)
            yearClass<10 -> salary =36000+(2000*yearClass-5)
            yearClass<15 -> salary =47000+(2000*yearClass-10)
            yearClass<20 -> salary =58000+(2000*yearClass-15)
            else-> salary = 60000+(2000*(yearClass-20))
        }
        println("$firstName's salary is $salary bath")
    }

    fun teach(subj:Subject){

```

```

        println(subj.toString())
        creditClass+=subj.credit
    }
    fun displayCredit(){
        println("$firstName teachers $creditClass credits.")
    }
}

object Singleton_Person{
    //    val first_Name = "Tenz"
    //    val last_Name = "Tyson"
    //    var age =20
    fun shwCompanion(first_Name:String="Tenz",last_Name: String="Tyson",age:
Int=20){
        println("Person is called from singleton object: $first_Name $last_Name
is $age years old")
    }
}

fun main(){
    val person = Person(fName = "Pornpavit", lName = "Thayommai", deptName =
"College of computing");
    println("Member NO 1: ${person.firstName} ${person.lastName}")
    person.showDetail();

    println("\nMember NO 2: ");
    Person.showCompanion(first_Name="Levi", last_Name = "Ackerman",age=22);

    val sub1 = Subject(id="SC362001", name = "Mobile Device Programming",
credit = 3)
    val sub2 = Subject(id="SC362002", name = "Basic of Data Engineering",
credit = 3)
    val sub3 = Subject(id="SC362003", name = "Web Application Programing",
credit = 3)

    val teacher = Teacher(fName = "Gafield", lName = "Outlier", deptName =
"Computer Sci", year = 20);
    println("\nMember NO 3: ${teacher.firstName} ${teacher.lastName}")
    teacher.showDetail()
    teacher.calSalary()
    println("${teacher.firstName} teaches :");
    teacher.teach(sub1)
    teacher.teach(sub2)
    teacher.teach(sub3)
    teacher.displayCredit()

    println("\nMember NO 4: ");
    Singleton_Person.shwCompanion()

    println("\nMember No 5: ")
    person.showDetail();
}

```

```
Run: Lab02Kt x
Member NO 1: Pornpavit Thayommai
Pornpavit is at College of computing,College of Computing.

Member NO 2:
Person is called from companion object : Levi Ackerman is 22 years old

Member NO 3: Gafield Outlier
Gafield is a teacher for 20 years at Computer Sci,College of Computing.
Gafield's salary is 60000 bath
Gafield teaches :
Subject(id=SC362001, name=Mobile Device Programming, credit=3)
Subject(id=SC362002, name=Basic of Data Engineering, credit=3)
Subject(id=SC362003, name=Web Application Programing, credit=3)
Gafield teachers 9 credits.

Member NO 4:
Person iscalled from singleton object: Tenz Tyson is 20 years old
```