

ITS 66704 Advance Programming

Week-3 Tutorial

Student Name	Student ID
Manoj Paudel	0355612

Prepared By: Manoj Paudel

EXERCISE: Modify **EmployeeThree** program with the following requirements 1. Add attribute YearBorn to Manager and Officer

The year born data are as follows:

```
a. Joyah=1965 b. Mat=1974 c. Minah = 1983
```

- 2. Display details showing age assuming current year is 2014.
- 3. Add class clerk. Clerks are not entitled to company car or petrol allowance but they may get Cost of Living allowance (COLA).
- 4. Add a clerk and show the details. Name "Selamat", Salary RM800, Year Born 1978, COLA RM50.
- 5. Redraw the class diagram to reflect the modified program
- 1. Employee 3.java (SUPERCLASS)

```
package Week3_Assignment;

public class Employee_3 {
    private final String name;
    private double salary;
    private boolean status;

Employee_3(String n, double s) {
        name = n;
        salary = s;
        status = true;
    }

    public double getSalary() {
        return salary;
    }

    public void setSalary(double s) {
        if (s < 25000)
            salary = s;
    }
}</pre>
```

2. Officer.java (SUBCLASS)

```
package Week3_Assignment;

public class Officer extends Employee_3{
    private final double petrol;
    private final int yearborn;

    public Officer(String n, double s, double p, int
y) {
        super(n, s);
        petrol = p;
        yearborn = y;
    }

    public double getPetrol() {
        return petrol;
```

```
public int getAge() {
    return (2014 - yearborn);
}

public void displayDetail() {
    super.displayDetail();
    System.out.println("AGE : " + getAge());
    System.out.println("PETROL : " + petrol);
}
```

3. Manager.java (SUBCLASS)

```
package Week3_Assignment;

public class Manager extends Employee_3{
          private final String car;
          private final int yearborn;

          public Manager(String n, double s, String c, int

y) {
                super(n, s);
                car = c;
                yearborn = y;
           }

           public String getCar() {
                return car;
           }

           public int getAge() {
                return (2014 - yearborn);
           }
}
```

4. Clerk.java (SUBCLASS)

```
package Week3 Assignment;
   public class Clerk extends Employee 3{
        private final double cola;
       private final int yearborn;
        public Clerk(String n, double s, int y, double
C) {
            super(n,s);
            cola = c;
            yearborn = y;
        public int getAge(){
            return (2014 - yearborn);
        public void displayDetail(){
            super.displayDetail();
            System.out.println("AGE : " + getAge());
            System.out.println("COLA : " + cola);
```

5. MyCompany_3.java (MAINCLASS)

```
package Week3 Assignment;
public class MyCompany 3 {
    public void init() {
        Officer staff1 = new Officer("Joyah", 3000,
300, 1965);
        Officer staff2 = new Officer("Mat", 2000, 100,
1974);
        Manager staff3 = new Manager("Minah", 8000, "Honda
Accord", 1983);
        Clerk staff4 = new Clerk("Selamat", 800, 1978,
50);
        staff1.displayDetail();
        staff2.displayDetail();
        staff3.displayDetail();
        staff2.resigned();
        staff2.displayDetail();
        staff4.displayDetail();
    public static void main(String[] args) {
        MyCompany 3 mct = new MyCompany 3();
        mct.init();
```

OUTPUT:

NAME: Joyah SALARY: 3000.0 STATUS: active

AGE: 49

PETROL: 300.0

NAME: Mat

SALARY: 2000.0 STATUS: active

AGE: 40

PETROL: 100.0

NAME: Minah SALARY: 8000.0 STATUS: active

AGE:31

CAR: Honda Accord

NAME: Mat SALARY: 2000.0 STATUS: resigned

AGE: 40

PETROL: 100.0

NAME : Selamat

SALARY: 800.0 STATUS: active

AGE: 36 COLA: 50.0

Process finished with exit code 0

Prepared By: Manoj Paudel

CLASS DIAGRAM:

