

Constructors and Inheritance-03

In this assignment you will create a program that will allow your users to select from a list of employees. When they select an employee it will display the selected employee's information.

1. Create a new NetBeans project called MAP103Lab3. Create a project on GitHub and connect the NetBeans project to the GitHub project. Copy and paste the following code into your MAP103Lab3.java file.

```
import java.util.Date;
import java.util.Scanner;

public class MAP103Lab3 {
    public static void main(String[] args) {
        Employee[] employees = new Employee[3];
        employees[0] = new Employee(1, "Jack", "Smith", new Date(), 54);
        employees[1] = new Employee(32, "April", "Doe", new Date(), 33);
        employees[2] = new Employee(24, "Pamela", "Smith", new Date(), 36);

        Scanner input = new Scanner(System.in);

        int numberFromUser = -1;

        while ( numberFromUser != 0) {
            System.out.println("Enter the number of employee (between 1 and 3):");
            numberFromUser = input.nextInt();

            if(numberFromUser==1) {
                System.out.println(employees[0].getEmployeeNumber());
                System.out.println(employees[0].getFirstName());
                System.out.println(employees[0].getLastName());
                System.out.println(employees[0].getBirthDate());
                System.out.println(employees[0].getAge());
                System.out.println("-----");
            } else if (numberFromUser==2) {
                System.out.println("Employee no:");
                System.out.println(employees[1].getEmployeeNumber());
                System.out.println(employees[1].getFirstName());
                System.out.println(employees[1].getLastName());
                System.out.println(employees[1].getBirthDate());
                System.out.println(employees[1].getAge());
                System.out.println("-----");
            } else if(numberFromUser==3) {
                System.out.println("Employee no:");
                System.out.println(employees[2].getEmployeeNumber());
                System.out.println(employees[2].getFirstName());
```

```

        System.out.println(employees[2].getLastName());
        System.out.println(employees[2].getBirthDate());
        System.out.println(employees[2].getAge());
        System.out.println("-----");
    } else if (numberFromUser == 0 ) {
        System.out.println("Thank you for using this Java program.....");
        input.close();
        System.exit(0);
    }
}
}
}
}

```

2. Create a new class called Person with the following:
 - a) Variables for a first name, last name, birth date, and age
 - b) Create a constructor that takes zero parameters and initializes all variables to a value.
 - c) Create a method called setFirstName that takes a String as a parameter and sets the first name variable to it's value, this method will not return anything.
 - d) Create a method called setLastName that takes a String as a parameter and sets the last name variable to it's value, this method will not return anything.
 - e) Create a method called setBirthDate that takes a Date (use java.util.Date) as a parameter and sets the birth date variable to it's value, this method will not return anything.
 - f) Create a method called setAge that takes an Int as a parameter and sets the age variable to it's value, this method will not return anything.
 - g) Create a method called getFirstName that will return the value in the first name variable.
 - h) Create a method called getLastName that will return the value in the last name variable.
 - i) Create a method called getBirthDate that will return the value in the birth date variable.
 - j) Create a method called getAge that will return the value in the age variable.
3. Create a second class called Employee that extends Person with the following:
 - a) A variable for an employee number
 - b) A constructor that takes 5 parameters, an employee number, first name, last name, birth date and age. Use these parameters to set the values of the employee number, first name, last name, birth date and age. When setting the first name, last name, birth date and age, use the super.setFirstName, super.setLastName, super.setBirthDate and super.setAge methods.
 - c) Create a method called setEmployeeNumber that takes an Int as a parameter and sets the employee number variable to it's value, this method will not return anything.
 - d) Create a method called getEmployeeNumber that will return the value in the employee number variable.