

Tugas Pemrograman Berorientasi Objek



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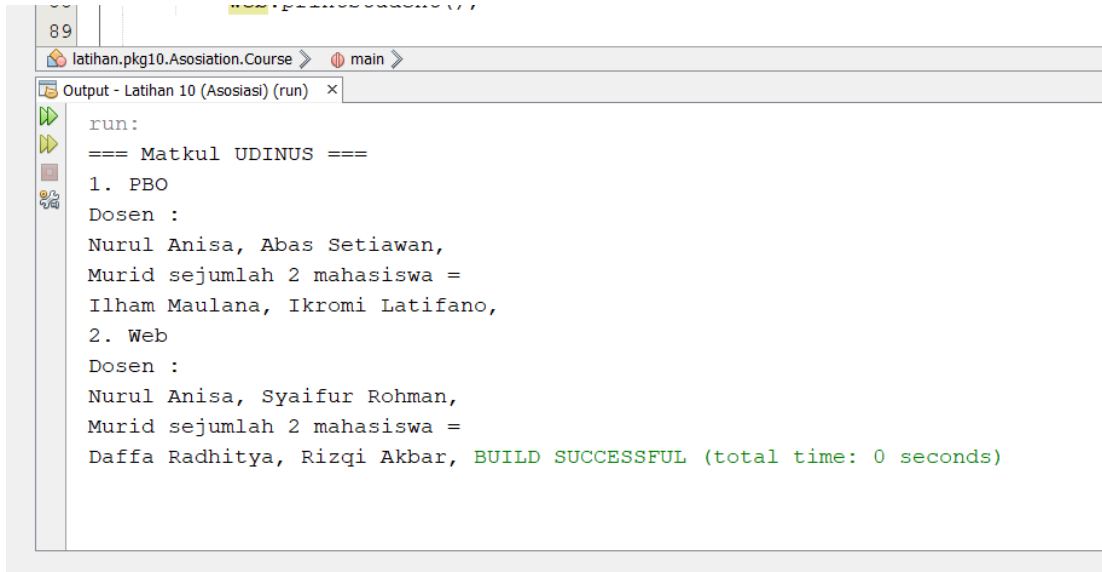
Fakultas Ilmu Komputer

Program Studi Teknik Informatika

Universitas Dian Nuswantoro

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1. Hasil Run



```
run:
=== Matkul UDINUS ===
1. PBO
Dosen :
Nurul Anisa, Abas Setiawan,
Murid sejumlah 2 mahasiswa =
Ilham Maulana, Ikromi Latifano,
2. Web
Dosen :
Nurul Anisa, Syaifur Rohman,
Murid sejumlah 2 mahasiswa =
Daffa Radhitya, Rizqi Akbar, BUILD SUCCESSFUL (total time: 0 seconds)
```

Student.java

```
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package latihan.pkg10.Asosiation;

/**
 *
 * @author adhim
 */
public class Student {
    // atribut
    private String name;
    private Course[] listCourse = new Course[1000];
    private int countCourse;

    //method
    public Student(String name){
        this.name = name;
        //punya class = inputan
    }

    public String getNameStudent(){
        return name;
    }
    public void takeCourse(Course c){
        listCourse[countCourse] = c;
        countCourse++;
    }
}
```

```

        public Course[] getListCourse(){
            return listCourse;
        }
        public int getCountCourse(){
            return countCourse;
        }

        public static void main(String[]args){

        }
    }

```

Faculty.java

```

/*
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Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package latihan.pkg10.Asosiation;

/**
 *
 * @author adhim
 */
public class Faculty {
    //atribute
    private String teacher;
    private Course[] listCourse = new Course[3];
    private int countCourse;

    //method
    public Faculty(String teacher){
        this.teacher = teacher;
    }
    public String getNameTeacher(){
        return teacher;
    }
    public void teachCourse(Course c){
        listCourse[countCourse] = c;
        countCourse++;
    }
    public Course[] getListCourse(){
        return listCourse;
    }
    public int getCountCourse(){
        return countCourse;
    }

    public static void main(String[]args){

```

```
}  
}
```

Course.java

```
/*  
 * To change this license header, choose License Headers in Project  
Properties.  
 * To change this template file, choose Tools | Templates  
 * and open the template in the editor.  
 */  
package latihan.pkg10.Asosiation;  
  
/**  
 *  
 * @author adhim  
 */  
public class Course {  
    // atribut  
    private String nameCourse;  
    private Student[] listStudent = new Student[60];  
    private int countStudent;  
    private Faculty[] listFaculty = new Faculty[3];  
    private int countFaculty;  
  
    //method  
    public Course(String nameCourse){  
        this.nameCourse = nameCourse;  
    }  
    public String getNamaCourse(){  
        return nameCourse;  
    }  
    public void addStudent(Student s){  
        listStudent[countStudent] = s;  
        countStudent++;  
    }  
    public Student[] getStudent(){  
        return listStudent;  
    }  
    public int getCountStudent(){  
        return countStudent;  
    }  
    public void setFaculty(Faculty f){  
        listFaculty[countFaculty] = f;  
        countFaculty++;  
    }  
    public Faculty[] getFaculty(){  
        return listFaculty;  
    }  
    public int getCountFaculty(){
```

```

        return countFaculty;
    }
    public void printStudent(){
        for(int i = 0; i < countStudent; i++){
            System.out.print(listStudent[i].getNameStudent() + ", ");
        }
    }
    public void printTeacher(){
        for(int i = 0; i < countFaculty; i++){
            System.out.print(listFaculty[i].getNameTeacher() + ", ");
        }
    }

    public static void main(String[] args){
        Course pbo = new Course("PBO"); //konstruktor nya ada inputan nama
        course
        Course web = new Course("Web");

        pbo.setFaculty(new Faculty("Nurul Anisa"));
        pbo.setFaculty(new Faculty("Abas Setiawan"));

        web.setFaculty(new Faculty("Nurul Anisa"));
        web.setFaculty(new Faculty("Syaifur Rohman"));
        //teacher adalah objek dari fakulti

        //set student
        pbo.addStudent(new Student("Ilham Maulana"));
        pbo.addStudent(new Student("Ikromi Latifano"));

        web.addStudent(new Student("Daffa Radhitya"));
        web.addStudent(new Student("Rizqi Akbar"));

        //print
        System.out.println("=== Matkul UDINUS ===");
        System.out.println("1. PBO");
        System.out.println("Dosen : ");
        pbo.printTeacher();
        System.out.println("\nMurid sejumlah " + pbo.getCountStudent() + "
mahasiswa = ");
        pbo.printStudent();
        System.out.println("\n2. Web");
        System.out.println("Dosen : ");
        web.printTeacher(); // void atau prosedur jadi bisa dipanggil langsung
        System.out.println("\nMurid sejumlah " + web.getCountStudent() + "
mahasiswa = ");
        //jika fungsi harus dipanggil di sout atau diletakkan dalam variabel
        web.printStudent();

    }
}

```

