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Class Mahasiswa

```
package oop_java.week13_quiz;
     public class Mahasiswa {
         private String nama, nim;
         private int[] nilai;
         public Mahasiswa(String nama, String nim, int[] milai) {
             this.nama = nama;
             this.nim = nim;
             this.nilai = nilai;
         public double hitung_ipk() {
             double total = 0;
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             for (int i = 0; i < nilai.length; i++) {
                 total += nilai[i];
             return total / nilai.length;
         public double hitung_ipk(int[] nilai_sks) {
             double total = 0;
             int total_sks = 0;
             for (int i = 0; i < nilai.length; i++) {
                 total += nilai[i] * nilai_sks[i];
                 total_sks += nilai_sks[i];
             }
             return total / total_sks;
         public String getNama() {
             return nama;
         public String getNim() {
             return nim;
         public int[] getNilai() {
             return nilai;
     }
```

```
package oop java.week13 quiz;
public class MataKuliah {
    private String nama matakuliah;
    private int sks;
   private int[] nilai_mahasiswa;
    public MataKuliah(String nama_matakuliah, int sks, int[] nilai_mahasiswa) {
        this.nama matakuliah = nama matakuliah;
        this.sks = sks;
        this.nilai_mahasiswa = nilai_mahasiswa;
    public double hitung_bobot() {
        double totalBobot = 0;
        for (int i = 0; i < nilai_mahasiswa.length; i++) {
            totalBobot += nilai_mahasiswa[i];
        return totalBobot / nilai_mahasiswa.length;
    public double hitung_bobot(int bobot_mahasiswa) {
        double totalBobot = 0;
        int total sks = 0;
        for (int i = 0; i < nilai_mahasiswa.length; i++) {
            totalBobot += nilai_mahasiswa[i] * bobot mahasiswa;
            total_sks += bobot_mahasiswa;
        return totalBobot / total_sks;
    public String getNama matakuliah() {
        return nama_matakuliah;
    public int getSks() {
        return sks;
    public int[] getNilai_mahasiswa() {
        return nilai_mahasiswa;
```

Class Perwalian

Main

```
public class Main {

Run [Onhus]

public static void main(String[] args) {

// bust objek mahasiswa

Mahasiswa mahasiswa! = new Mahasiswa(nama:"Budi", nim:"123456789", new int[]{80, 90, 70});

Mahasiswa mahasiswa2 = new Mahasiswa(nama:"Andi", nim:"987654321", new int[]{90, 80, 70});

// bust objek mata kuliah

MataKuliah mataKuliah! = new MataKuliah(nama_matakuliah:"Pemrograman Berorientasi Objek", sks:3, new int[]{80, 90, 70});

MataKuliah mataKuliah2 = new MataKuliah(nama_matakuliah:"Pemrograman Berbasis Web", sks:3, new int[]{90, 80, 70});

// bust objek perwalian

Perwalian perwalian = new Perwalian();
perwalian.tambahMahasiswa(mahasiswa2);
perwalian.tambahMahasiswa(mahasiswa2);
perwalian.tambahMataKuliah(mataKuliah1);
perwalian.tambahMataKuliah(mataKuliah2);

// tampikan daftar mahasiswa dan mata kuliah
perwalian.tampilkanOaftarMahasiswa();

}
```

Output

```
Daftar Mahasiswa & Mata Kuliah
Mahasiswa: Budi
NIM: 123456789
IPK: 80.0
Mata Kuliah: Pemrograman Berorientasi Objek
SKS: 3
Bobot: 80.0

Mahasiswa: Andi
NIM: 987654321
IPK: 80.0
Mata Kuliah: Pemrograman Berbasis Web
SKS: 3
Bobot: 80.0
```