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Kelas Lingkaran

```
public class Lingkaran {  
    private float r;  
    private float d;  
    private float luas;  
    private float keliling;  
  
    public Lingkaran(){  
        this.r = 0;  
    }  
  
    public Lingkaran(float r){  
        this.r = r;  
    }  
  
    public float getR(){  
        return this.r;  
    }  
  
    public float getD(){  
        return this.d;  
    }  
  
    public float getLuas(){  
        return this.luas;  
    }  
  
    public float getKeliling(){  
        return this.keliling;  
    }  
  
    public void setR(float r){  
        this.r = r;  
    }  
  
    public void hitung_diameter(){  
        this.d = 2 * r;  
    }  
  
    public void hitung_luas(){  
        this.luas = (float) Math.PI * r * r;  
    }  
  
    public void hitung_keliling(){
```

```

        this.keliling = (float) Math.PI * 2 * r;
    }
}

```

Kelas Mahasiswa

```

public class Mahasiswa {
    private String namaMahasiswa;
    private String nim;
    private int nilaiTugas;
    private int nilaiUts;
    private int nilaiUas;
    private float ipk;
    private char nilaiHuruf;

    public Mahasiswa(){
        this.namaMahasiswa = "-";
        this.nim = "-";
        this.nilaiTugas = 0;
        this.nilaiUts = 0;
        this.nilaiUas = 0;
    }

    public Mahasiswa(String namaMahasiswa, String nim, int nilaiTugas, int nilaiUts, int nilaiUas){
        this.namaMahasiswa = namaMahasiswa;
        this.nim = nim;
        this.nilaiTugas = nilaiTugas;
        this.nilaiUts = nilaiUts;
        this.nilaiUas = nilaiUas;
    }

    public String getNamaMahasiswa(){
        return this.namaMahasiswa;
    }

    public String getNim(){
        return this.nim;
    }

    public int getNilaiTugas(){
        return this.nilaiTugas;
    }

    public int getNilaiUts(){
        return this.nilaiUts;
    }

    public int getNilaiUas(){

```

```

        return this.nilaiUas;
    }

    public float getIpk(){
        return this.ipk;
    }

    public char getNilaiHuruf(){
        return this.nilaiHuruf;
    }

    public void setNamaMahasiswa(String namaMahasiswa){
        this.namaMahasiswa = namaMahasiswa;
    }

    public void setNim(String nim){
        this.nim = nim;
    }

    public void setNilaiTugas(int nilaiTugas){
        this.nilaiTugas = nilaiTugas;
    }

    public void setNilaiUts(int nilaiUts){
        this.nilaiUts = nilaiUts;
    }

    public void setNilaiUas(int nilaiUas){
        this.nilaiUas = nilaiUas;
    }

    public void hitungIpk(){
        this.ipk = (float) (this.nilaiTugas + this.nilaiUts + this.nilaiUas)/3
;
    }

    public void hitungNilaiHuruf(){
        if (this.ipk > 80 && this.ipk <= 100)
            this.nilaiHuruf = 'A';
        else if (this.ipk > 60)
            this.nilaiHuruf = 'B';
        else if (this.ipk > 40)
            this.nilaiHuruf = 'C';
        else if (this.ipk > 20)
            this.nilaiHuruf = 'D';
        else
            this.nilaiHuruf = 'E';
    }
}

```

