Nama          : Ferza Reyaldi
NIM           : 09021281924060
Kelas         : 4 REG A

**Kelas Lingkaran**

```java
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(){
```

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

**Kelas Mahasiswa**

```java
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 nil
aiUts, 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(){
```

```java
        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';
    }
```

```
}
```

**Kelas Main**

```java
public class Main {
    public static void main(String[] args) {
        //Membuat objek lingkaran
        Lingkaran lingkaran1 = new Lingkaran();
        lingkaran1.hitung_keliling();
        System.out.println("Keliling Lingkaran 1: " + lingkaran1.getKeliling()
);

        Lingkaran lingkaran2 = new Lingkaran(5);
        lingkaran2.hitung_keliling();
        System.out.println("Keliling Lingkaran 2: " + lingkaran2.getKeliling()
);

        //Membuat objek mahasiswa
        Mahasiswa reyaldi = new Mahasiswa("Reyaldi", "09021281924060", 85, 90,
 80);
        reyaldi.hitungIpk();
        reyaldi.hitungNilaiHuruf();
        System.out.println("Nama: " + reyaldi.getNamaMahasiswa() + "\nIPK: " +
 reyaldi.getIpk() + "\nNilai Huruf: " + reyaldi.getNilaiHuruf());
    }
}
```