```
public class program1
{     public static void main (String[ ] args)
      {     int[ ] nilai = {3, 5, 18, 9, 35};
            for (int i = 0; i < 5; i ++)
                  System.out.println("Elemen ke=" + i +
" " + nilai[i]);
}     }
```

```
import javax.swing.*;
public class program2
{     public static void main (String[ ] args)
      {     float[ ] nilai = new float[5];
            for (int i = 0; i < 5; i ++)
            {     String bilangan =

      JOptionPane.showInputDialog("Masukkan
nilai:");
                  System.out.println("Input angka: " +
bilangan);
                  nilai[i] = Float.parseFloat(bilangan);
            }
            for (int i = 0; i < 5; i ++)
                  System.out.println("Elemen ke-" + i + "
" + nilai[i]);
            System.exit(0);
}     }
```

```
import javax.swing.*;
public class program3
{     public static void main (String[ ] args)
      {     int[ ] nilai = new int[10];
            int nilaiMaks;
            for (int i = 0; i < 10; i ++)
                  nilai[i] = (int) (100 * Math.random());

            nilaiMaks = nilai[0];
            for (int i = 0; i < 10; i ++)
            {     System.out.println(nilai[i]);
                  if (nilai[i] > nilaiMaks)
                        nilaiMaks = nilai[i];
            }
            System.out.println("Nilai maksimum = " +
nilaiMaks);
}     }
```

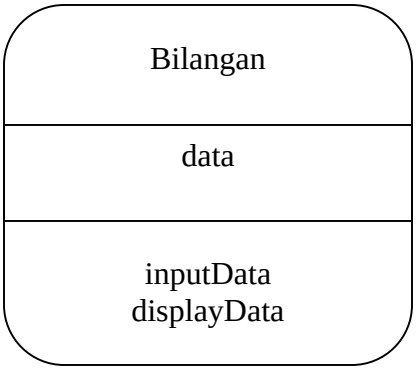
```
public class program4
{     public static void main (String[ ] args)
      {     String teks = "Array adalah kumpulan data
yang bertipe"
            + "sama menggunakan nama yang sama
pula. "
            + " Setiap identifier berhubungan dengan
satu variable.";

            int spasi = 0;
            hurufHidup = 0;
```

```
        huruf = 0;
        int jumlah = 0;
        int indeks = -1;
        String kata = “yang”;

        int panjangTeks = teks.length();
        for (int i = 0; i < panjangTeks; i ++)
        {     char kar =
Character.toLowerCase(teks.charAt(i));
              if (kar == ‘a’ || kar == ‘e’ || kar == ‘i’
||
                    kar == ‘o’ || kar == ‘u’)
                    hurufHidup ++)
              if (Character.isLetter(kar))
                    huruf ++;
               if (Character.isWhitespace(kar))
                    spasi ++;
        }

        indeks = teks.indexOf(kata);
        while (indeks >=0)
        {     ++ jumlah;
              indeks += kata.length();
              indeks = teks.indexOf(kata, indeks);
        }
        System.out.println(“Teks berisi: “);
        System.out.println(“huruf hidup = “ +
hurufHidup);
        System.out.println(“konsonan = “ + (huruf -
hurufHidup));
        System.out.println(“spasi = “ + spasi);
```

```
        System.out.println("Teks berisi kata : " +
"\n" +
                "yang = " + jumlah);
}    }
```

```
import javax.swing.*;
public class program5
{    public static void main (String[ ] args)
     {    int[ ][ ] x = new int[4][ ];
          x[0] = new int[1];
          x[1] = new int[2];
          x[2] = new int[3];
          x[3] = new int[4];
          int i, j;
          for (i = 0; i < 4; i ++)
          {    for (j = 0; j < i + 1; j ++)
               {    String bilangan =
     JOptionPane.showInputDialog
                                        ("Masukkan
     nilai:");
                    x[i][j] = Integer.parseInt(bilangan);
          }    }
          for (i = 0; i < 4; i ++)
          {    for (j = 0; j < i + 1; j ++)
                    System.out.print(x[i][j] + " ");
               System.out.println();
          }
          System.exit(0);
}    }
```

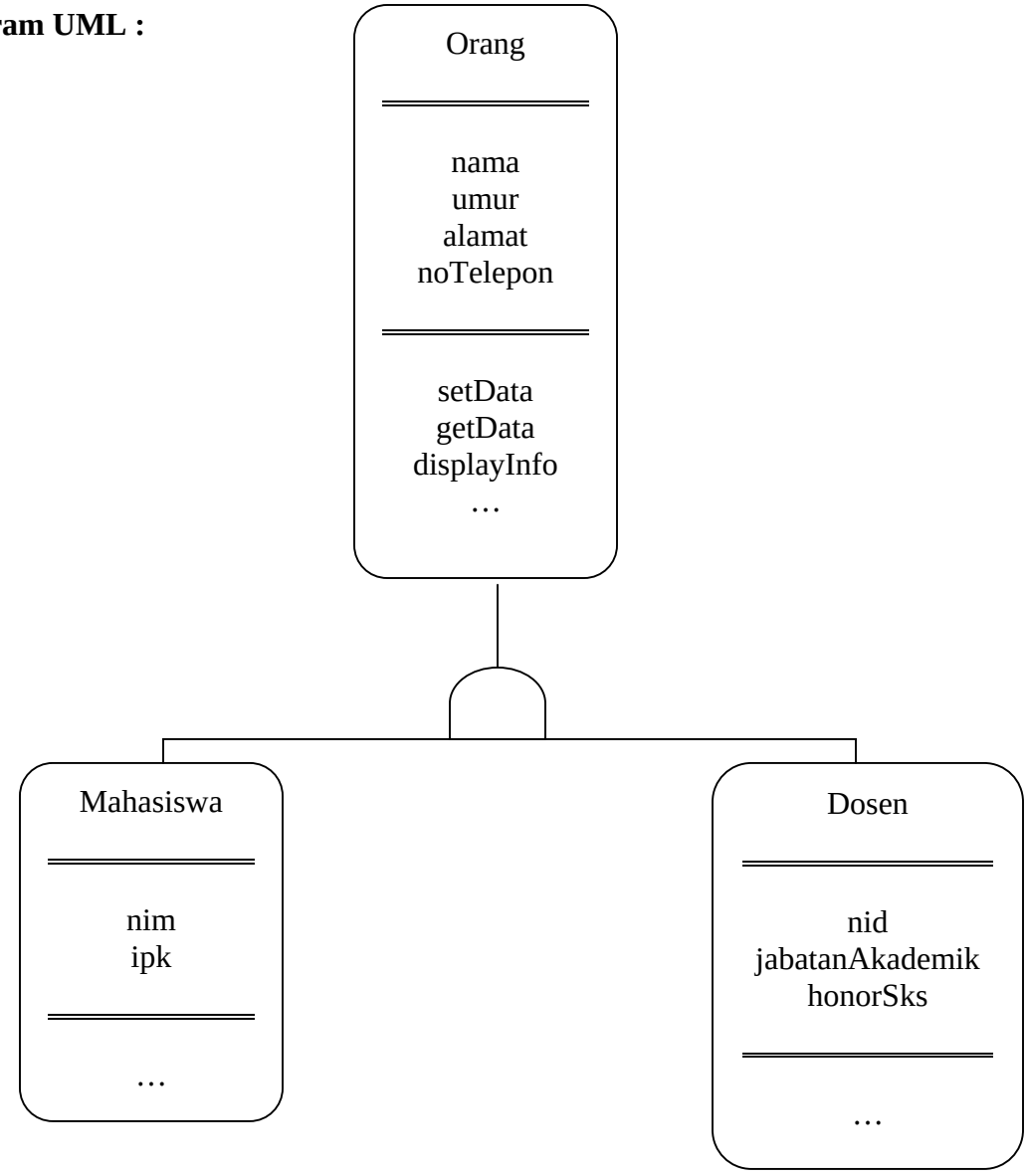
Contoh Diagram UML :



Program :

```
import javax.swing.*;

class Bilangan
{
        private int data;

        public void inputData( )
        {
                String teks = JOptionPane.showInputDialog("Masukkan angka: ");
                data = Integer.parseInt(teks);
        }

        public void displayData ( )
        {
                System.out.println ("Bilangan: " + this.data);
        }
}

public class BilanganInput
{
        public static void main (String [ ] args)
        {
                Bilangan bilangan1 = new Bilangan( );
                bilangan1.inputData( );
                bilangan1.displayData( );
                System.exit(0);
        }
}
```

Diagram UML :


Orang
nama
umur
alamat
noTelepon
setData
getData
displayInfo
…
Mahasiswa
nim
ipk
…
Dosen
nid
jabatanAkademik
honorSks
…

Program :

```
class Orang
{
	private String nama = “”;
	private int umur;
	private String alamat = “”;
	private String noTelepon = “”;

	public Orang (String nm, int um, String al, String tel)
	{
		nama = nm;
		umur = um;
		alamat = al;
		noTelepon = tel;
	}

	public void setNama (String nm)
	{
		this.nama = nm;
	}

	public void setUmur (int um)
	{
		this.umur = um;
	}

	public void setAlamat (String al)
	{
		this.alamat = al;
	}

	public void setTelepon (String tel)
	{
		this.noTelepon = tel;
	}

	public String getNama ( )
	{
		return nama;
	}

	public int getUmu r( )
	{
		return umur;
	}
```

```
	public String getAlamat ( )
	{
		return alamat;
	}

	public String getTelepon ( )
	{
		return noTelepon;
	}

	public String displayInfo ( )
	{
		return “Nama: “ + nama + “; Umur: “ + umur +
		“; Alamat: “ + alamat + “; Telepon: “ + noTelepon;
	}
}


class Dosen extends Orang
{
	private String nid = “”;
	private String jabatanAkademik = “”;
	private float honorSks;

	public Dosen (String nm, int um, String al, String tel, String nd, String ja, float
ga)
	{
		super (nm, um, al, tel);
		nid = nd;
		jabatanAkademik = ja;
		honorSks = ga;
	}

	public void setNID (String nd)
	{
		this.nid = nd;
	}

	public void setJabatan (String ja)
	{
		this.jabatanAkiademik = ja;
	}
```

```
	public void setGaji (float ga)
	{
		this.honorSks = ga;
	}

	public String getNID ( )
	{
		return nid;
	}

	public String getJabatan ( )
	{
		return jabatanAkademik;
	}

	public float getGaji ( )
	{
		return honorSks;
	}

	public String displayInfo ( )
	{
		return super.displayInfo() + “, NID: “ + nid + “; Jabatan: “ +
		jabatan Akademik + “; Gaji: “ + honorSks;
	}
}


class Mahasiswa extends Orang
{
	private String nim = “”;
	private float ipk;

	public Dosen (String nm, int um, String al, String tel, String ni, float ip)
	{
		super (nm, um, al, tel);
		nim = nm;
		ipk = ip;
	}

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

```
	public void setIpk (float ip)
	{
		this.ipk = ip;
	}

	public String getNim ( )
	{
		return nim;
	}

	public float getIpk( )
	{
		return ipk;
	}


	public String displayInfo( )
	{
		return super.displayInfo() + “, NIM: “ + nim + “; IPK: “ + ipk;
	}
}

public class Perkuliahan
{
	public static void main (String [ ] args)
	{
	Dosen dsn = new Dosen(“Hartono”, 40, “Jakarta”, “”, “L102”, “Lektor”, 25000);
	Mahasiswa mhs = new  Mahasiswa(“Andi”, 20, “Jakarta”, “3413789”, “2001”, 3);
	System.out.println(dsn.displayInfo( ));
	System.out.println(mhs.displayInfo( ));
	}
}
```