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[https://github.com/kamil026/PBO\\_223040141](https://github.com/kamil026/PBO_223040141)

## Latihan 1

### Kelas Orang

```
Orang.java × Mahasiswa.java InheritanceMain.java
1 package Tugas9;
2
3 public class Orang {
4     protected String nama;
5     public void setNama(String nama) {
6         this.nama = nama;
7     }
8     public String getnama() {
9         return nama;
10    }
11 }
12
```

### Kelas Mahasiswa

```
Orang.java Mahasiswa.java × InheritanceMain.java
1 package Tugas9;
2
3 public class Mahasiswa extends Orang {
4
5 }
6
```

### InheritanceMain

```
Orang.java Mahasiswa.java InheritanceMain.java ×
1 package Tugas9;
2
3 public class InheritanceMain {
4     public static void main (String[] args) {
5         Mahasiswa mhs = new Mahasiswa();
6         mhs.setNama("Ade suendar");
7         System.out.println(mhs.getnama());
8     }
9 }
10
```

## Output

```
Console ×
<terminated> InheritanceMain
Ade sukendar
```

## Latihan 2

### Kelas Orang

```
Orang.java × Mahasiswa.java InheritanceMain.java
1 package Tugas9;
2
3 public class Orang {
4     protected String nama;
5     protected String alamat;
6
7     public Orang() {
8         nama = "Ade sukendar";
9         alamat = "Bandung";
10    }
11
12
13    public String getnama() {
14        return nama;
15    }
16
17    public String getAlamat() {
18        return alamat;
19    }
20 }
```

### Kelas Mahasiswa

```
Orang.java Mahasiswa.java × InheritanceMain.java
1 package Tugas9;
2
3 public class Mahasiswa extends Orang {
4
5 }
6
```

### InheritanceMain

```
Orang.java Mahasiswa.java InheritanceMain.java ×
1 package Tugas9;
2
3 public class InheritanceMain {
4     public static void main (String[] args) {
5         Mahasiswa mhs = new Mahasiswa();
6
7         System.out.println(mhs.getnama() + "-" + mhs.getAlamat());
8     }
9 }
10
```

## Output

```
Console ×
<terminated> InheritanceMa
Ade sukendar-Bandung A
```

## Latihan 3

### Kelas Orang

```
Orang.java × Mahasiswa.java InheritanceMain.java
1 package Tugas9;
2
3 public class Orang {
4     protected String nama;
5     protected String alamat;
6
7     public Orang(String nama, String alamat) {
8         this.nama = "Ade sukendar";
9         this.alamat = "Bandung";
10    }
11
12
13    public String getnama() {
14        return nama;
15    }
16
17    public String getAlamat() {
18        return alamat;
19    }
20 }
```

### Kelas Mahasiswa

```
*Orang.java *Mahasiswa.java × InheritanceMain.java
1 package Tugas9;
2
3 public class Mahasiswa extends Orang {
4     public Mahasiswa(String nama, String alamat ) {
5         super(nama, alamat);
6     }
7 }
```

### InheritanceMain

```
Orang.java Mahasiswa.java InheritanceMain.java ×
1 package Tugas9;
2
3 public class InheritanceMain {
4     public static void main (String[] args) {
5         Mahasiswa mhs = new Mahasiswa("Ade Sukendar", "Bandung");
6
7         System.out.println(mhs.getnama()+ "-" + mhs.getAlamat());
8     }
9 }
10 |
```

## OutPut

```
Console ×
<terminated> InheritanceMain [Java App
Ade sukendar-Bandung
```

## Latihan 4

### Kelas Orang

```
*Orang.java × Mahasiswa.java InheritanceMain.java
1 package Tugas9;
2
3 public class Orang {
4     protected String nama;
5     protected String alamat;
6
7     public Orang(String nama, String alamat) {
8         this.nama = nama;
9         this.alamat = alamat;
10    }
11
12
13    public String getnama() {
14        return nama;
15    }
16
17    public String getAlamat() {
18        return alamat;
19    }
20 }
```

### Kelas Mahasiswa

```
Orang.java Mahasiswa.java × InheritanceMain.java
1 package Tugas9;
2
3 public class Mahasiswa extends Orang {
4     private String nrp;
5     public Mahasiswa(String nrp, String nama, String alamat ) {
6         super(nama, alamat);
7         setNrp(nrp);
8     }
9     public String getNrp() {
10        return nrp;
11    }
12    public void setNrp(String nrp) {
13        this.nrp = nrp;
14    }
15 }
```

## InheritanceMain

```
Orang.java  Mahasiswa.java  InheritanceMain.java ×
1 package Tugas9;
2
3 public class InheritanceMain {
4     public static void main (String[] args) {
5         Mahasiswa mhs = new Mahasiswa("1003", "Ade suendar", "Bandung");
6
7         System.out.println(mhs.getNrp()+
8                             "-" + mhs.getnama()+
9                             "-" + mhs.getAlamat());
10    }
11 }
12
```

## OutPut

```
Console ×
<terminated> InheritanceMain [Java Application]
1003-Ade suendar-Bandung
```

## Tugas

### Buku.java

```
Orang.java  Mahasiswa.java  InheritanceMain.java  Buku.java ×  BukuMain.java
1 package Tugas9;
2
3 public class Buku {
4     private String judul;
5     private String penulis;
6     protected double harga;
7
8     public Buku(String judul, String penulis, double harga) {
9         this.judul = judul;
10        this.penulis = penulis;
11        this.harga = harga;
12    }
13
14    // Getter dan setter untuk atribut
15    // ...
16
17    @Override
18    public String toString() {
19        return "Judul: " + judul + "\nPenulis: " + penulis + "\nHarga: " + harga;
20    }
21 }
22
23 class Novel extends Buku {
24     private int jumlahHalaman;
25 }
```

```

Orang.java  Mahasiswa.java  InheritanceMain.java  *Buku.java ×  BukuMain.java
26 public Novel(String judul, String penulis, double harga, int jumlahHalaman) {
27     super(judul, penulis, harga);
28     this.jumlahHalaman = jumlahHalaman;
29 }
30
31
32 @Override
33 public String toString() {
34     return super.toString() + "\nJumlah Halaman: " + jumlahHalaman;
35 }
36 }
37
38 class Komik extends Buku {
39     private int jumlahHalaman;
40     private String genre;
41
42     public Komik(String judul, String penulis, double harga, int jumlahHalaman, String genre) {
43         super(judul, penulis, harga);
44         this.jumlahHalaman = jumlahHalaman;
45         this.genre = genre;
46     }
47
48
49     public String toString() {
50         return super.toString() + "\nJumlah Halaman: " + jumlahHalaman + "\nGenre: " + genre;
51     }
52 }
53
54 class Majalah extends Buku {
55     private int edisi;
56     private float diskon; // Ubah tipe data diskon menjadi float
57
58     public Majalah(String judul, String penulis, double harga, int edisi, float diskon) {
59         super(judul, penulis, harga);
60         this.edisi = edisi;
61         this.diskon = diskon;
62     }
63
64     public String toString() {
65         double hargaDiskon = harga * (1 - diskon);
66         return super.toString() + "\nEdisi: " + edisi + "\nDiskon: " + diskon * 100 + "% (Rp" + hargaDiskon + ")";
67     }
68 }

```

## BukuMain.java

```

Orang.java  Mahasiswa.java  InheritanceMain.java  *Buku.java  BukuMain.java ×
1 package Tugas9;
2
3 public class BukuMain {
4     public static void main(String[] args) {
5         Novel novel = new Novel("psychology of money", "Kholish kamil", 350000, 752);
6         Komik komik = new Komik("Doraemon", "Nobita", 50000, 231, "action");
7         System.out.println(novel);
8         System.out.println(komik);
9     }

```

## OutPut

```

Console ×
<terminated> BukuMain [Java Application] C:\Users\KAMIL\p2\
Judul: psychology of money
Penulis: Kholish kamil
Harga: 350000.0
Jumlah Halaman: 752
Judul: Doraemon
Penulis: Nobita
Harga: 50000.0
Jumlah Halaman: 231
Genre: action

```