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KELAS : 2C  
MATKUL : PBO- (Pertemuan 11)

## TUGAS 1

### Class Bayaran

```
Bayaran.java x
Source History
1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6   package Tugas1;
7
8   /**
9    *
10   * @author ddiko
11   */
12   public class Bayaran {
13
14       public int hitungBayaran(Pegawai pg) {
15           int uang = pg.getGaji();
16           if (pg instanceof Manajer) {
17               uang += ((Manajer) pg).getTunjangan();
18           } else if (pg instanceof Programmer) {
19               uang += ((Programmer) pg).getBonus();
20           }
21           return uang;
22       }
23   }
24
```

### Class manajer

```
Bayaran.java x Manajer.java x
Source History
1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6   package Tugas1;
7
8   /**
9    *
10   * @author ddiko
11   */
12   public class Manajer extends Pegawai {
13
14       private int tunjangan;
15
16       public Manajer(String nama, int gaji, int tunjangan) {
17           super(nama, gaji);
18           this.tunjangan = tunjangan;
19       }
20
21       public int getTunjangan() {
22           return tunjangan;
23       }
24
25       public int getGaji() {
26           return super.getGaji();
27       }
28   }
29
30
```



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## Class bayaran

```
Bayaran.java x Manajer.java x Pegawai.java x
Source History
1  /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6  package Tugas1;
7
8  /**
9   *
10  * @author ddiko
11  */
12  @
13  public class Pegawai {
14
15      protected String nama;
16      protected int gaji;
17
18      public Pegawai() {
19      }
20
21      public Pegawai(String nama, int gaji) {
22          this.nama = nama;
23          this.gaji = gaji;
24      }
25
26      public int getGaji() {
27          return gaji;
28      }
29  }
30
```

## Class programmer

```
Bayaran.java x Manajer.java x Pegawai.java x Programmer.java x
Source History
1  /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6  package Tugas1;
7
8  /**
9   *
10  * @author ddiko
11  */
12  public class Programmer extends Pegawai {
13
14      private int bonus;
15
16      public Programmer(String nama, int gaji, int bonus) {
17          super(nama, gaji);
18          this.bonus = bonus;
19      }
20
21      public int getBonus() {
22          return bonus;
23      }
24
25      public int getGaji() {
26          return super.getGaji();
27      }
28  }
29
30
```



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### Main test bayaran

```
Bayaran.java x Manajer.java x Pegawai.java x Programmer.java x MainBayaran.java x
Source History
1  /**
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6   package Tugas1;
7
8   /**
9    *
10   * @author ddiko
11   */
12   public class MainBayaran {
13
14       public static void main(String[] args) {
15
16           Manajer man = new Manajer("Agus", 800, 50);
17           Programmer prog = new Programmer("Budi", 600, 30);
18           Bayaran hr = new Bayaran();
19
20           System.out.println(
21               "Bayaran Manajer : " + hr.hitungBayaran(man));
22           System.out.println(
23               "Bayaran Programmer : " + hr.hitungBayaran(prog));
24       }
25   }
26
```

### Output

```
Output - PBO_Pertemuan11 (run) x Bayaran.java x Manajer.java x Pegawai.java x Programmer.java x MainBayaran.java x
run:
Bayaran Manajer : 850
Bayaran Programmer : 630
BUILD SUCCESSFUL (total time: 0 seconds)
```



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## Tugas 2

### Class elektronik

```
Elektronik.java x
Source History
1  /**
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6   package Tugas2;
7
8   /**
9    *
10   * @author ddiko
11   */
12   public class Elektronik {
13
14       protected int voltase;
15
16       public Elektronik() {
17           this.voltase = 220;
18       }
19
20       public int getVoltase() {
21           return voltase;
22       }
23
24   }
25
```

### Class manusia

```
Elektronik.java x Manusia.java x
Source History
1  /**
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6   package Tugas2;
7
8   /**
9    *
10   * @author ddiko
11   */
12   public class Manusia {
13
14       public void nyalakanPerangkat(Elektronik pkt) {
15           String info1 = "Nyalakan televisi ";
16           String info2 = "dengan Input: ";
17           String info3 = "\nVoltase televisi: ";
18           if (pkt instanceof TVjadul) {
19               info1 += "jadul";
20               info2 += ((TVjadul) pkt).getModelInput();
21               info3 += ((TVjadul) pkt).getVoltase();
22           } else if (pkt instanceof TVModern) {
23               info1 += "modern";
24               info2 += ((TVModern) pkt).getModelInput();
25               info3 += ((TVModern) pkt).getVoltase();
26           }
27           System.out.println(info1 + info2 + info3);
28       }
29   }
30
```



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### Class tv modern

```
Elektronik.java x Manusia.java x TVModern.java x
Source History
1  /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6  package Tugas2;
7
8  /**
9   *
10  * @author ddiko
11  */
12  public class TVModern extends Elektronik{
13      private String modelInput;
14
15      public TVModern() {
16          this.modelInput="HDMI";
17      }
18
19      public String getModelInput() {
20          return modelInput;
21      }
22  }
23
```

### Class tv jadul

```
Elektronik.java x Manusia.java x TVModern.java x TVjadul.java x
Source History
1  /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6  package Tugas2;
7
8  /**
9   *
10  * @author ddiko
11  */
12  public class TVjadul extends Elektronik {
13
14      private String modelInput;
15
16      public TVjadul() {
17          this.modelInput = "DVI";
18      }
19
20      public String getModelInput() {
21          return modelInput;
22      }
23  }
24
```



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### Main test elektronik

```
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3   * To change this template file, choose Tools | Templates  
4   * and open the template in the editor.  
5   */  
6  package Tugas2;  
7  
8  /**  
9   *  
10   * @author ddiko  
11   */  
12  public class MainElektronik {  
13  
14      public static void main(String[] args) {  
15          Manusia indro = new Manusia();  
16          TVjadul tvjadul = new TVjadul();  
17          TVModern tvmodern = new TVModern();  
18  
19          indro.nyalakanPerangkat(tvjadul);  
20          indro.nyalakanPerangkat(tvmodern);  
21      }  
22  }  
23  }
```

### Output

```
run:  
Nyalakan televisi jadul dengan Input: DVI  
Voltase televisi: 220  
Nyalakan televisi modern dengan Input: HDMI  
Voltase televisi: 220  
BUILD SUCCESSFUL (total time: 0 seconds)
```