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**PRAKTIKUM 8**

**Polymorphism**

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| **PersegiPanjang.java** |
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| **Balok.java** |
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| **BalokDemo.java** |
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| **Output** |
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**Latihan 1**

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| **Matematika.java** |
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| **MatematikaDemo.java** |
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| **Output** |
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| **TestTurunan2.java** |
| class Satu {      Satu(String s) {          System.out.println("Satu...." + s);      }  }  class Dua extends Satu {      Dua(String s) {          super(s);          System.out.println("Dua....");      }  }  class Tiga extends Dua {      Tiga(String s) {          super(s);          System.out.println("Tiga....");      }  }  class Empat extends Tiga {      Empat(String s) {          super(s);          System.out.println("Empat....");      }  }  public class TestTurunan2 {      public static void main(String[] args) {          new Empat("Kiriman untuk mbah buyut..... alfatihah");      }  } |
| **Output** |
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**Latihan 1**

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| **Mobil2.java** | |
| public class Mobil2 {      int roda = 4;      int body = 1;      static int mesin = 1;      String warna;      static void maju() {          System.out.println("Maju.....");      }      void mundur() {          System.out.println("Mundur.....");      }      void belok() {          System.out.println("Belok.....");      }      void hidupkanMobil() {          System.out.println("Hidupkan Mobil  : " + warna);      }      void matikanMobil() {          System.out.println("Matikan Mobil   : " + warna);      }      void ubahGigi() {          System.out.println("Ubah Gigi   : " + warna);      }  } | |
| **Mobil2BMW.java** | **Mobil2MBWDemo.java** |
| public class Mobil2BMW extends Mobil2 {      public void nontonTV() {          System.out.println("TV dihidupkan");          System.out.println("TV mencari channel");          System.out.println("TV menampilkan gambar");      }  } | public class Mobil2BMWDemo {      public static void main(String[] args) {          Mobil2BMW BMW = new Mobil2BMW();          BMW.warna = "Merah";          BMW.hidupkanMobil();          BMW.nontonTV();          BMW.ubahGigi();          BMW.matikanMobil();      }  } |
| **Output** | |
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**Latihan 2**

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| **Code Karyawan.java** |
| import java.io.\*;  public class Karyawan {      String nip, nama;      int sts\_peg;      void inputKar() throws IOException {          BufferedReader br = new BufferedReader(new InputStreamReader(System.in));          System.out.println(“Data karyawan”);          System.out.print(“NIP   : “);          nip = br.readLine();          System.out.print(“Nama  : “);          nama = br.readLine();          System.out.print(“Status Pegawai    : “);          sts\_peg = Integer.parseInt(br.readLine());      }  } |
| **Code KaryawanTetap.java** |
| import java.io.BufferedReader;  import java.io.IOException;  import java.io.InputStreamReader;  public class KaryawanTetap extends Karyawan {      double gapok;      int jml\_anak;      void inputTetap() throws IOException {          BufferedReader br = new BufferedReader(new InputStreamReader(System.in));          System.out.println("---------- Karyawan Tetap ----------");          System.out.print("Gaji Pokok : ");          gapok = Double.parseDouble(br.readLine());          System.out.print("Jumlah Anak : ");          jml\_anak = Integer.parseInt(br.readLine());      }      double totalGaji() {          return gapok + (jml\_anak \* (0.1 \* gapok));      }  } |
| **Code KaryawanKontrak.java** |
| import java.io.BufferedReader;  import java.io.IOException;  import java.io.InputStreamReader;  public class KaryawanKontrak extends Karyawan {      double upah\_harian;      int jml\_anak, hari\_masuk;      void inputKontrak() throws IOException {          BufferedReader br = new BufferedReader(new InputStreamReader(System.in));          System.out.println("---------- Karyawan Kontrak ----------");          System.out.println("Upah Harian : ");          upah\_harian = Double.parseDouble(br.readLine());          System.out.print("Jumlah Masuk : ");          hari\_masuk = Integer.parseInt(br.readLine());          System.out.print("Jumlah Anak : ");          jml\_anak = Integer.parseInt(br.readLine());      }      double totalUpah() {          return (hari\_masuk \* upah\_harian) + (jml\_anak \* (0.1 \* (hari\_masuk \* upah\_harian)));      }  } |
| **Code KaryawanDemo.java** |
| import java.io.\*;  import java.text.DecimalFormat;  public class KaryawanDemo {      public static void main(String[] args) throws IOException {          DecimalFormat df = new DecimalFormat("###, ###, ##0.00");          Karyawan kar = new Karyawan();          KaryawanTetap tetap = new KaryawanTetap();          KaryawanKontrak kontrak = new KaryawanKontrak();          kar.inputKar();          if (kar.sts\_peg == 1) {              tetap.inputTetap();              System.out.println("Gaji Diterima : " + df.format(tetap.totalGaji()));          } else {              kontrak.inputKontrak();              System.out.println("Upah Diterima : " + df.format(kontrak.totalUpah()));          }      }  } |

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| **Output** |
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**Latihan 3**

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| **Code GradeActivity.java** |
| public class GradeActivity {      private double score;      private String name;      public GradeActivity() {      };      public GradeActivity(String n) {          name = n;      }      public void setScore(double s) {          score = s;      }      public double getScore() {          return score;      }      public char getGrade(){          if (score >= 70)              return 'A';          else              return 'E';      }  } |
| **Code FinalExam.java** |
| public class FinalExam extends GradeActivity {      private int numberOfQuestion;      private int numberOfMiss;      double poinsPerQuestion;      public FinalExam(int questions, int missed ){          numberOfQuestion = questions;          numberOfMiss = missed;      }      public double getPointsPerQuestion(){          return numberOfQuestion\*poinsPerQuestion;      }      public int getNumberMissed(){          return numberOfMiss;      }    } |
| **Code FinalExamDemo.java** |
| public class FinalExamDemo {      public static void main(String[] args) {          FinalExam fe = new FinalExam(7,3);          fe.poinsPerQuestion = 10;          System.out.println("Point   : " + fe.getPointsPerQuestion());          System.out.println("Missed  : " +fe.getNumberMissed());          fe.setScore(fe.getPointsPerQuestion());          System.out.println("Grade   : " + fe.getGrade());      }  } |
| **Output** |
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