Jobsheet Constructor

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| No. | Kegiatan | Scrip | Hasil running |
| 1. | Method constructor – membuat constructor tanpa parameter | public class mahasiswa { int x;  public mahasiswa() {  }  public static void main(String[] args) { mahasiswa mhs = new mahasiswa(); System.out.println(mhs.x);  }  } |  |
| 2. | Method | package jobsheetP3; |  |
|  | constructor – |  |
|  | membuat | public class P3 { |
|  | constructor | String nama; |
|  | dengan | String nim; |
|  | parameter | int kelompok; |
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|  |  | public P3(String nama, String nim, int |
|  |  | kelompok) { |
|  |  | this.nama = nama; |
|  |  | this.nim = nim; |
|  |  | this.kelompok = kelompok; |
|  |  | } |
|  |  | public static void main(String[] args) { |
|  |  | P3 mahasiswa = new |
|  |  | P3("Rahmat Agus Firdaus", |
|  |  | "F1B019117", 1); |
|  |  | System.out.println("Nama: " + |
|  |  | mahasiswa.nama); |
|  |  | System.out.println("NIM: " + |
|  |  | mahasiswa.nim); |
|  |  | System.out.println("Kelompok: " + |
|  |  | mahasiswa.kelompok); |
| 3. | Method constructor – parameter yang berbeda |  |  |
|  |  | package jobsheetP3;  public class P3 { String mk;  int nilai;  public P3(String mk, int nilai) { this.mk = mk;  this.nilai = nilai;  }  public static void main(String[] args) { P3 mahasiswa = new  P3("Pemrograman Berorientasi Objek", 90); System.out.println("Mata Kuliah: " +  mahasiswa.mk);  System.out.println("Nilai: " + mahasiswa.nilai);  }  } |

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| 4. | Method |  |  |
|  | Constructor – | public class mobil { |
|  | gabungan | private String nama; |
|  |  | private int tahun; |
|  |  | public mobil() { |
|  |  | nama = "Ferrari"; |
|  |  | } |
|  |  | public mobil(int tahun) { |
|  |  | this.tahun = tahun; |
|  |  | } |
|  |  | public String getNama() { |
|  |  | return nama; |
|  |  | } |
|  |  | public void setNama(String nama) { |
|  |  | this.nama = nama; |
|  |  | } |
|  |  | public int getTahun() { |
|  |  | return tahun; |
|  |  | } |
|  |  | public void setTahun(int tahun) { |
|  |  | this.tahun = tahun; |
|  |  | } |
|  |  | public static void main(String[] args) { |
|  |  | mobil mbl1 = new mobil(); |
|  |  | mobil mbl2 = new mobil(2023); |
|  |  | System.out.println("Jenis mobil: " + |
|  |  | mbl1.getNama()); |
|  |  | System.out.println("Tahun mobil: " + |
|  |  | mbl2.getTahun()); |
|  |  | } |

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|  |  | } |  |
| 5. | Method |  |  |
|  | constructor | public class birthday { |
|  | dengan 2 | String hari; |
|  | constructor | String bulan; |
|  |  | int tanggal; |
|  |  | int tahun; |
|  |  | public birthday() { |
|  |  | this.hari = "Rabu"; |
|  |  | this.tanggal = 6; |
|  |  | this.bulan = "July"; |
|  |  | this.tahun = 2002; |
|  |  | } |
|  |  | public static void main(String[] args) { |
|  |  | birthday lahir1 = new birthday(); |
|  |  | System.out.println("Hari: " + lahir1.hari); |
|  |  | System.out.println("Tanggal: " + |
|  |  | lahir1.tanggal); |
|  |  | System.out.println("Bulan: " + |
|  |  | lahir1.bulan); |
|  |  | System.out.println("Tahun: " + |
|  |  | lahir1.tahun); |
|  |  | } |
|  |  | } |
| 6. | Method constructor dengan 2 constructor (input secara dinamis) | import java.util.Scanner;  public class buku { String judul;  int halaman;  public buku(String judul, int halaman) { this.judul = judul;  this.halaman = halaman;  }  public static void main(String[] args) { Scanner input = new  Scanner(System.in);  System.out.println("Judul buku: "); String judul = input.nextLine();  System.out.println("Halaman buku: "); int halaman = input.nextInt();  buku myBook = new buku(judul, halaman);  System.out.println("Informasi Buku:"); System.out.println("Judul: " +  myBook.judul);  System.out.println("Halaman: " + myBook.halaman);  }  } |  |
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| 7. | Method constructor dengan perhitungan (menghitung debit air secara dinamis) | import java.util.Scanner;  public class debit { int hitungDebit;  public debit(int volume, int waktu) { hitungDebit = volume / waktu;  }  public int hitungDebit() { return hitungDebit;  }  public static void main(String[] args) { Scanner input = new  Scanner(System.in); System.out.println("Volume air: "); int volume = input.nextInt(); System.out.println("Waktu: ");  int waktu = input.nextInt();  debit nilai = new debit(volume, waktu); System.out.println("Debit air: " +  nilai.hitungDebit);  }  } |  |
| 8. | Methode constructor dengan perhitungan (menghitung kecepatan mobil secara dinamis) | import java.util.Scanner;  public class kecepatan { int hitungKecepatan;  public kecepatan(int jarak, int waktu) { hitungKecepatan = jarak / waktu;  }  public int hitungKecepatan() { |  |

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|  |  | return hitungKecepatan;  }  public static void main(String[] args) { Scanner input = new  Scanner(System.in); System.out.println("Jarak tempuh: "); int jarak = input.nextInt(); System.out.println("Waktu tempuh: "); int waktu = input.nextInt();  kecepatan hasil = new kecepatan(jarak, waktu);  System.out.println("Kecepatan tempuh: "  + hasil.hitungKecepatan());  }  } |  |
| 9. | Methode constructor dengan perhitungan (menghitung energi potensial secara dinamis) | import java.util.Scanner;  public class potensial { double energiPotensial;  final double gravitasi = 9.81;  public potensial(double massa, double tinggi) {  energiPotensial = massa \* gravitasi \* tinggi;  }  public double getEnergiPotensial() { return energiPotensial;  }  public static void main(String[] args) { Scanner input = new  Scanner(System.in); System.out.println("Massa benda: "); double massa = input.nextDouble(); //  Menggunakan nextDouble untuk input nilai desimal  System.out.println("Tinggi: "); double tinggi = input.nextDouble(); //  Menggunakan nextDouble untuk input nilai desimal  potensial energi = new potensial(massa, tinggi);  double hasilEnergiPotensial = energi.getEnergiPotensial(); |  |

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|  |  | System.out.println("Energi Potensial: " + hasilEnergiPotensial);  }  } |  |