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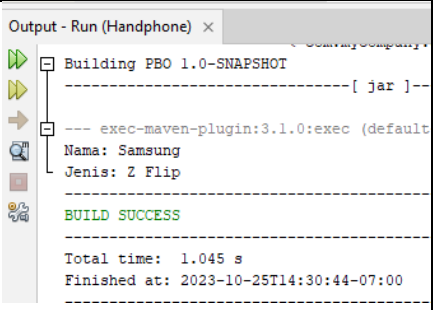
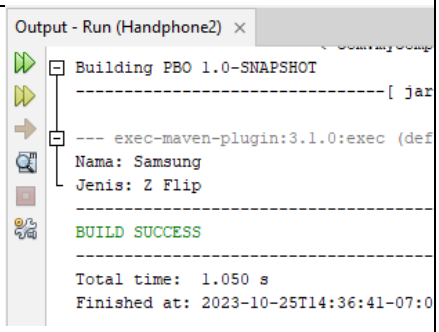
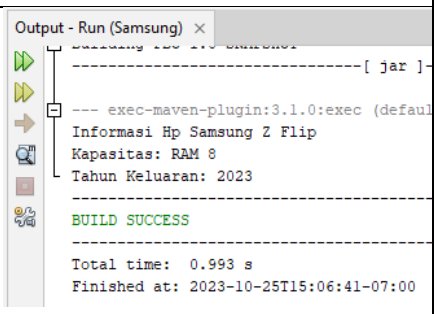
Jobsheet P3 (*Constructor*)

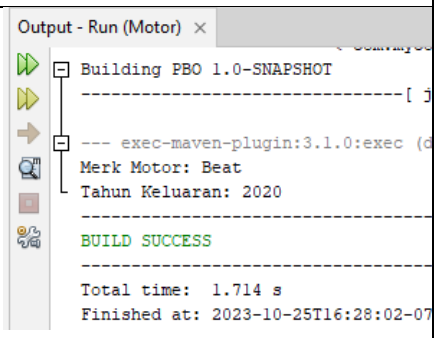
No	Kegiatan	*Script*	Hasil Running

1	Method contructor - membuat constructor tanpa parameter	`package JSP3;`
		
		`public class Handphone {`
		`  String nama;`
		`  String jenis;`
		
		`  public Handphone(){`
		`  nama = "Samsung";`
		`  jenis = "Z Flip";`
		`  }`
		
		`  public static void main(String[] args){`
		`  Handphone HandphoneLS = new Handphone();`
		
		`System.out.println("Nama: "+ HandphoneLS.nama);`
		
		`System.out.println("Jenis: "+ HandphoneLS.jenis);`
		`  }`
		`}`
			

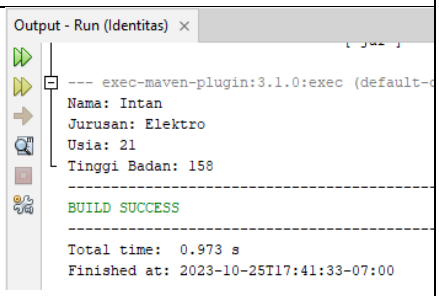
2	Method constructor - membuat constructor dengan paramer	`package JSP3;`
		
		`public class Handphone2 {`
		`  String nama;`
		`  String jenis;`
		
		`  public Handphone2(String nama, String jenis){`
		`  this.nama = nama;`
		`  this.jenis = jenis;`
		`  }`
		
		`  public static void main(String[] args){`
		`  Handphone2 HandphoneLayarSentuh = new Handphone2("Samsung", "Z Flip");`
		
		`System.out.println("Nama: "+ HandphoneLayarSentuh.nama);`
			

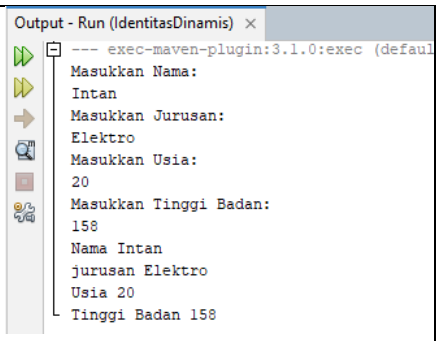
		System.out.println("Jenis: "+ HandphoneLayarSentuh.jenis); } }	

3	Method constructor - parameter yang berbeda	package JSP3;
		
		public class Handphone2 {
		    String nama;
		    String jenis;
		
		    public Handphone2(String nama, String jenis){
		        this.nama = nama;
		        this.jenis = jenis;
		    }
		
		    public static void main(String[] args){
		        Handphone2 HandphoneLayarSentuh = new Handphone2("Samsung", "Z Flip");
		
		System.out.println("Nama: "+ HandphoneLayarSentuh.nama);
		
		System.out.println("Jenis: "+ HandphoneLayarSentuh.jenis);
		    }
		}
			

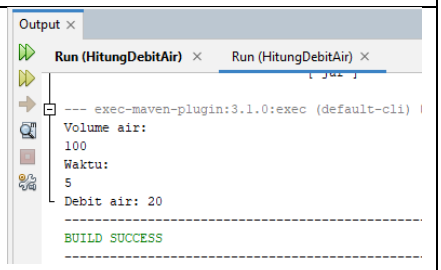
4	Method constructor - gabungan	package JSP3;
		public class Motor {
		    private String merk;
		    private int tahun;
		
		 public Motor(){
		    merk = "Beat";
		    tahun = 2020;
		 }
		 public Motor(String merk, int tahun){
		    this.merk = merk;
		    this.tahun = tahun;
		 }
		 public String getMerk(){
		    return merk;
		 }
		 public void setMerk(String merk){
		    this.merk = merk;
		 }
		 public int getTahun(){
		    return tahun;
		 }
			

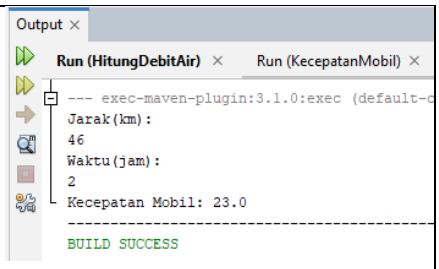
		public void setTahun(int tahun){
		this.tahun = tahun;
		}
		public static void main(String[] args){
		Motor Motor1 = new Motor();
		System.out.println("Merk Motor: " + Motor1.getMerk());
		System.out.println("Tahun Keluaran: " + Motor1.getTahun());
		}
		}	

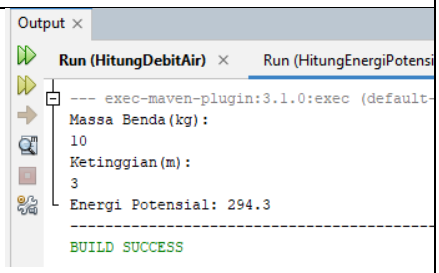
5	Method constructor – dengan 2 contructor	package JSP3;
		
		public class Identitas {
		String nama;
		String jurusan;
		int usia;
		int tinggi_badan;
		
		public Identitas(String nama, String jurusan){
		this.nama = nama;
		this.jurusan = jurusan;
		}
		public Identitas(int usia, int tinggi_badan){
		this.usia = usia;
		this.tinggi_badan = tinggi_badan;
		}
		
		public static void main(String[] args){
		Identitas Biodata1 = new Identitas("Intan", "Elektro");
		Identitas Biodata2 = new Identitas(21, 158);
		
		System.out.println("Nama: "+ Biodata1.nama);
		
		System.out.println("Jurusan: "+ Biodata1.jurusan);
		
		System.out.println("Usia: "+ Biodata2.usia);
		
		System.out.println("Tinggi Badan: "+ Biodata2.tinggi_badan);
		}
		}
			

6	Method constructor - dengan 2 constructor (input secara dinamis)	<pre>package JSP3;
		import java.util.Scanner;
		
		public class IdentitasDinamis {
		    String nama;
		    String jurusan;
		    int usia;
		    int tinggi_badan;
		
		    public
		IdentitasDinamis(String nama,
		String jurusan){
		        this.nama = nama;
		        this.jurusan = jurusan;
		    }
		    public IdentitasDinamis(int
		usia, int tinggi_badan){
		        this.usia = usia;
		        this.tinggi_badan =
		tinggi_badan;
		    }
		
		    public static void
		main(String[] args){
		        Scanner input = new
		Scanner(System.in);
		
		System.out.println("Masukkan
		Nama: ");
		        String nama =
		input.nextLine();
		
		System.out.println("Masukkan
		Jurusan: ");
		        String jurusan =
		input.nextLine();
		        IdentitasDinamis
		Biodata1 = new
		IdentitasDinamis(nama,
		jurusan);
		
		System.out.println("Masukkan
		Usia: ");
		        int usia =
		input.nextInt();
		
		System.out.println("Masukkan
		Tinggi Badan: ");
		        int tinggi_badan =
		input.nextInt();
		        IdentitasDinamis
		Biodata2 = new
		IdentitasDinamis(usia,
		tinggi_badan);</pre>
			

		System.out.println("Nama " + Biodata1.nama); System.out.println("jurusan " + Biodata1.jurusan); System.out.println("Usia " + Biodata2.usia); System.out.println("Tinggi Badan " + Biodata2.tinggi_badan); } }	

7	Method constructor – dengan perhitungan (menghitung debit air secara dinamis)	package JSP3;
		import java.util.Scanner;
		public class HitungDebitAir {
		    int hitungDebit;
		
		    public HitungDebitAir(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();
		
		        HitungDebitAir nilai = new HitungDebitAir(volume, waktu);
		
		System.out.println("Debit air: " + nilai.hitungDebit);
		}
		}
			

8	Method constructor – dengan perhitungan (menghitung kecepatan mobil secara dinamis)	`package JSP3;`
		`import java.util.Scanner;`
		`public class KecepatanMobil {`
		`int jarak;`
		`int waktu;`
		
		`public KecepatanMobil(int jarak, int waktu){`
		`this.jarak = jarak;`
		`this.waktu = waktu;`
		`}`
		
		`public double hitungKecepatan(){`
		`return jarak/waktu;`
		`}`
		`public static void main(String[] args){`
		`Scanner input = new Scanner(System.in);`
		
		`System.out.println("Jarak(km): ");`
		`int jarak = input.nextInt();`
		
		`System.out.println("Waktu(jam): ");`
		`int waktu = input.nextInt();`
		
		`KecepatanMobil kecepatan = new KecepatanMobil(jarak, waktu);`
		
		`System.out.println("Kecepatan Mobil: " + kecepatan.hitungKecepatan());`
		`}`
		`}`
			

9	Method constructor – dengan perhitungan (menghitung energi potensial secara dinamis)	`package JSP3;`
		`import java.util.Scanner;`
		`public class HitungEnergiPotensial {`
		`double massa;`
		`double ketinggian;`
		`double gravitasi = 9.81;`
		
		`public HitungEnergiPotensial(double massa, double ketinggian){`
		`this.massa = massa;`
		`this.ketinggian = ketinggian;`
		`}`
			

		public double hitungEnergiPotensial(){
		return massa* gravitasi * ketinggian;
		}
		public static void main(String[] args){
		Scanner input = new Scanner(System.in);
		
		System.out.println("Massa Benda(kg): ");
		double massa = input.nextDouble();
		
		System.out.println("Ketinggian(m): ");
		double ketinggian = input.nextDouble();
		
		HitungEnergiPotensial EP = new HitungEnergiPotensial(massa, ketinggian);
		double energiPotensial = EP.hitungEnergiPotensial();
		
		System.out.println("Energi Potensial: " + energiPotensial);
		}
		}	