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Partisipasi!

1. Praktek Pengantar PBO

1.1.Source Code GoodByeWorld

```
GoodByeWorld.java - Notepad

File Edit Format View Help

public class GoodByeWorld

{
    public static void main (String [] p)
    {
       System.out.println (" Good Bye World...");
    }
```

Hasil

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\
C:\>cd PB0

C:\PB0>javac GoodByeWorld.java

C:\PB0>java GoodByeWorld
Good Bye World...

C:\PB0>
```

1.2. Source Code Hello Medan

```
File Edit Format View Help

public class HelloMedan

{

public static void main (String [] a)

{

System.out.println ("Hello Medan Bung !!");

System.out.println ("Ya, saya anak Medan ");

System.out.println ("Boleh Gabung");

}
```

Hasil

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\
C:\Pso\javac HelloMedan.java

C:\Pso\java HelloMedan
Hello Medan Bung !!
Ya, saya anak Medan
Boleh Gabung

C:\Pso\
```

2. Praktek Variable

2.1.Source Code Variable

```
Variable.java - Notepad

File Edit Format View Help

public class Variable

{

    public static void main (String [] y)

    {

        int uang = 1000;
        char huruf = 'a';
        boolean benar = true;

        System.out.println("Uang : " +uang);
        System.out.println("Huruf : " +huruf);
        System.out.println("Benar : " +benar);

}

}
```

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]

Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\Vset PB0

C:\PB0>javac Variable.java

C:\PB0>java Variable

Uang : 1000

Huruf : a

Benar : true

C:\PB0>
```

2.2. Source Code Variable Latihan

```
File Edit Format View Help

public class VariableLatihan {

    public static void main (String [] t) {
        //deklarasi variable
        int a = 1000, b = 200, tambah = a+b, kurang = a-b, bagi = a/b, modulo = a&b;

        System.out.println ("===PENJUMLAHAN===");
        System.out.println ("Hasil dari Variable A : "+a);
        System.out.println ("Hasil dari Variable B : "+b);
        System.out.println ("Hasil dari Variable A dan Variable B : "+tambah);
        System.out.println ("===PENGURANGAN===");
        System.out.println ("Hasil dari Variable A : "+a);
        System.out.println ("Hasil dari Variable B : "+b);
        System.out.println ("Hasil dari Variable B : "+b);
        System.out.println ("Hasil dari Variable A dan Variable B : "+kurang);
        System.out.println ("===PEMBAGIAN===");
        System.out.println ("Hasil dari Variable A : "+a);
        System.out.println ("Hasil dari Variable B : "+b);
        System.out.println ("Hasil dari Variable B : "+b);
        System.out.println ("Hasil dari Variable A dan Variable B : "+bagi);
        System.out.println ("==SISA BAGI===");
        System.out.println ("Hasil dari Variable A : "+a);
        System.out.println ("Hasil dari Variable A : "+a);
        System.out.println ("Hasil dari Variable B : "+b);
        System.out.println ("Hasil dari Variable A : "+a);
        System.out.println ("Hasil dari
```

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\
C:\Zcd PBO
C:\PBO\javac VariableLatihan.java

C:\PBO\javac VariableLatihan
===PENJUMLAHAN===
Hasil dari Variable A : 1000
Hasil dari Variable B : 200
Hasil dari Variable A dan Variable B : 1200
===PENGURANGAN==
Hasil dari Variable A : 1000
Hasil dari Variable B : 200
Hasil dari Variable A dan Variable B : 800
===PEMBAGIAN==
Hasil dari Variable A : 1000
Hasil dari Variable B : 200
Hasil dari Variable A dan Variable B : 5
===SISA BAGI==
Hasil dari Variable A : 1000
Hasil dari Variable A : 1000
Hasil dari Variable B : 200
```

2.3.Source Code Var

```
File Edit Format View Help

public class Var|

{

    public static void main (String [] g) {
        int a=1, b=2;
        String bobo = "Boneka";
        float pi=3.2f;
        char flo='b';

        System.out.println ("A : "+a);
        System.out.println ("B : "+b);
        System.out.println ("Bobo : "+bobo);
        System.out.println ("Pi : "+pi);
        System.out.println ("Flower : "+flo);
}
```

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User\cd\

C:\P80\Javac Var.java

C:\P80\Javac Var.

A: 1

B: 2

Bobo: Boneka

Pi: 3.2

Flower: b

C:\P80\
```

3. Praktek Operator dalam Java

3.1. Source Code Operator Aritmatika

```
OperatorAritmatika.java - Notepad
File Edit Format View Help
public class OperatorAritmatika
         public static void main (String [] g)
         //Deklarasi variabel
         int a=10, b=20;
         //variable kompleks int tambah=a+b, kurang=b-a, kali=a*b, bagi=b/a, modulo=a%b;
                                                              " +a);
" +b);
                  System.out.println ("Ini Bilangan A : System.out.println ("Ini Bilangan B :
                                                              +tambah);
                                         "Hasil Jumlah :
                  System.out.println
                  System.out.println
                                         "Hasil Kurang :
                                                              +kurang)
                  System.out.println
                  System.out.println
                                          "Hasil Kali :
                                                            +kali);
                  System.out.println
                  System.out.println
                                          "Hasil Bagi : " +bagi);
                  System.out.println
                  System.out.println
                                         "Hasil Modulo : " +modulo);
                  System.out.println
                  System.out.println
         }
}
```

3.2. Source Code OpPerbandingan

Hasil

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\>cd PB0

C:\PB0>javac OpPerbandingan.java

C:\PB0>java OpPerbandingan
JK Anda adalah Laki-laki

C:\PB0>
```

3.3. Source Code Login

```
File Edit Format View Help

public class Login {
    public static void main (string [] f)
    {
        String username = "andi";
        String password = "12345";|

        if (!(username == "andi" && password == "12345"))
        {
            System.out.println ("Anda Berhak Masuk");
        }
        else
        {
            System.out.println ("Anda Salah Kamar");
        }
}
```

Hasil

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\
C:\PBO\javac Login.java

C:\PBO\java Login
Anda Salah Kamar

C:\PBO\
```

4. Praktek Struktur Kontrol

4.1.Source Code LatihanLogika

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]

Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\>cd PB0

C:\PB0>javac LatihanLogika.java

C:\PB0>java LatihanLogika
Nama saya Alvina

C:\PB0>
```

4.2. Source Code Brancing

```
File Edit Format View Help

public class Brancing {
    public static void main (String [] 1) {
        int a=5;

        if (a > 10)
        {
             System.out.println ("Nilai a : "+a);
             System.out.println ("Lebih besar dari 5");
        }
} else{
        System.out.println ("Nilai a : "+a);
        System.out.println ("Tidak lebih besar dari 5");
        }
}
```

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]

Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\>cd PB0

C:\PB0>javac Brancing.java

C:\PB0>java Brancing

Nilai a : 5

Tidak lebih besar dari 5

C:\PB0>
```

4.3. Source Code HitungGrade

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]

Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\>cd PB0

C:\PB0>javac HitungGrade.java

C:\PB0>java HitungGrade

Grade: C+

C:\PB0>
```

4.4. Source Code LampuLaluLintas With Switch

```
LampuLaluLintasWithSwitch.java - Notepad
File Edit Format View Help
jimport java.util.Scanner;
public class LampuLaluLintasWithSwitch {
     public static void main (String [] args) {
                    //membuat variabel dan Scanner
                    String lampu;
Scanner scan = new Scanner (System.in);
                    // mengambil input
System.out.print ("Inputkan nama warna :");
lampu = scan.nextLine();
                    switch (lampu) {
case "merah" :
                                         System.out.println ("Lampu merah, berhenti");
                              break;
case "kuning" :
                                         System.out.println ("Lampu kuning, harap hati-hati");
break;
                              case "hijau"
                                         System.out.println ("Lampu hijau, silahkan jalan");
                                         break;
                              default:
                                         System.out.println ("Warna lampu salah!");
                    }
          }
}
```

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\
C:\Scd PB0

C:\PB0>javac LampuLaluLintasWithSwitch.java

C:\PB0>java LampuLaluLintasWithSwitch
Inputkan nama warna :Hijau
Warna lampu salah!

C:\PB0>java LampuLaluLintasWithSwitch
Inputkan nama warna :merah
Lampu merah, berhenti

C:\PB0>
```

4.5. Source Code Kasir

```
Kasir.java - Notepad
File Edit Format View Help
jimport java.util.Scanner;
public class Kasir
          public static void main (String [] args) {
//deklarasi variable dan Scanner
int belanjaan, diskon, bayar;
                     String kartu;
Scanner scan = new Scanner (System.in);
                     //mengambil input
System.out.print ("Apakah ada kartu member : ");
kartu = scan.nextLine();
System.out.print ("Total belanjaan : ");
                     belanjaan = scan.nextInt();
                     diskon = 50000;
}else if (belanjaan > 100000) {
                                          diskon = 15000;
                               }else {
                                          diskon = 0;
                     }else {
                               if (belanjaan > 100000) {
                                          diskon = 5000;
                               }else {
                                          diskon = 0;
                               }
                     //total yang harus dibayar
                     bayar = belanjaan - diskon;
                     System.out.println ("Total Bayar : Rp "+bayar);
          }
```

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\
C:\>cd PBO
C:\PBO>javac Kasir.java
C:\PBO>java Kasir
Apakah ada kartu member : tidak
Total belanjaan : 203
Total Bayar : Rp 203
C:\PBO>
```

4.6. Source Code Tilang

```
Tilang.java - Notepad

File Edit Format View Help

public class Tilang {
    public static void main (string [] args) {
        boolean SIM = false;
        boolean STNK = true;

    // cek apakah dia akan ditilang atau tidak
    if (SIM == true) {
        if (STNK == true) {
            System.out.println ("Tidak ditilang!");
        }
        }else {
        System.out.println ("Anda ditilang!");
        }
}
```

Hasil

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]

Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\>cd PB0

C:\PB0>javac Tilang.java

C:\PB0>java Tilang
Anda ditilang !

C:\PB0>
```

5. Praktek Array

Hasil

5.1.Source Code Array

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\
C:\>cd PB0

C:\PB0>javac Array.java

C:\PB0>java Array
Jumlah Element : 3
Element 0 : 90
Element 1 : 80
Element 2 : 70

C:\PB0>
```

5.2. Source Code Array2

```
File Edit Format View Help

public class Array2{
    public static void main (String [] args) {
        String [] kumpulanString = new String [6];
        int [] kumpulanInt = new int [6];

        kumpulanString[0] = "Perkenalkan";
        kumpulanString[1] = "nama";
        kumpulanString[2] = "saya";
        kumpulanString[3] = "adalah";
        kumpulanString[4] = "Alvina";
        kumpulanString[5] = "Tansy";

        kumpulanInt [0] = 121;
        kumpulanInt [1] = 2324;
        kumpulanInt [2] = 300;
        kumpulanInt [3] = 343;
        kumpulanInt [4] = 12;
        kumpulanInt [5] = 50;

        System.out.println (kumpulanString[4]);
        System.out.println (kumpulanInt[5]);
        }
}
```

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\
C:\Delta PB0

C:\PB0\javac Array2.java

C:\PB0\java Array2
Alvina
50

C:\PB0>
```

5.3. Source Code Array2D

```
File Edit Format View Help

public class Array2D {
    public static void main (String [] a) {
        String [][] nama = {{"Anto", "12334"},{"Budi", "34455"}, {"Alvina", "443322"}};
        System.out.println ("Jumlah Element : "+nama.length);

        for (int i =0; i<nama.length; i++){
            System.out.println ("Nama : "+nama[i][0]);
            System.out.println ("Nomor : "+nama[i][1]);
            System.out.println ("========"");
        }
}
```

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\Scd PB0

C:\PB0>javac Array2D.java

C:\PB0>java Array2D

Jumlah Element : 3

Nama : Anto
Nomor : 12334

==============

Nama : Budi
Nomor : 34455

============

Nama : Alvina
Nomor : 443322

==============

C:\PB0>
```

5.4. Source Code TestMobil

```
Mobil.java - Notepad
 File Edit Format View Help
public class Mobil
         int mesin=1;
         int body=1;
         int roda=4;
         void maju()
                  System.out.println("Maju");
         void mundur()
         {
                  System.out.println("Mundur");
         void belok()
                  System.out.println("Belok");
         void berhenti()
                  System.out.println("Berhenti");
         }
}
TestMobil.java - Notepad
File Edit Format View Help
public class TestMobil
         public static void main (String [] a)
        Mobil avanza=new Mobil();
        avanza.maju();
         avanza. mundur ();
}
Hasil
C:\Windows\system32\cmd.exe
```

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]

Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\>cd PB0

C:\PB0>javac TestMobil.java

C:\PB0>java TestMobil

Maju

Mundur

C:\PB0>
```

TUGAS

1. Modul 3

Source Code Bitwise

```
TugasBitwise.java - Notepad

File Edit Format View Help

public class TugasBitwise {
    public static void main (String [] args) {
        int a = 33;
        int b = 3;

        System.out.println ("Operator AND = " +(a&b));
        System.out.println ("Operator OR = " +(a|b));
        System.out.println ("Operator XOR = " +(a\b));
        System.out.println ("Operator NOT = " +(\alpha\b));
        System.out.println ("Operator Right Shift = " +(a>>5));
        System.out.println ("Operator Left Shift = " +(a<<5));
}
```

Hasil

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]

Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\Vsers\User>cd\

C:\Vseta PB0

C:\PB0\javac TugasBitwise.java

C:\PB0\java TugasBitwise

Operator AND = 1

Operator OR = 35

Operator XOR = 34

Operator NOT = -34

Operator Right Shift = 1

Operator Left Shift = 1056

C:\PB0\
```

2. Tugas Modul 5

Source Code ArrayList

```
Tugas.java - Notepad

File Edit Format View Help

|import java.util.ArrayList;

public class Tugas {
        public static void main (String [] args)
        {
            ArrayList <String> siswa = new ArrayList <>();
            siswa.add("Alvina");
            siswa.add("Alvin");
            siswa.add("Alvi");

            ArrayList <Integer> absensi = new ArrayList <>();
            absensi.add(0);
            absensi.add(3);
            absensi.add(20);

            System.out.println(siswa);
            System.out.println(absensi);
        }
}
```

```
C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.7601]

Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\User>cd\

C:\>cd PB0

C:\PB0>javac Tugas.java

C:\PB0>java Tugas
[Alvina, Alvin, Alvi]
[0, 3, 20]

C:\PB0>
```

3. Tugas Modul 6

Source Code Pesawat Tempur

```
PesawatTempur.java - Notepad
File Edit Format View Help
public class PesawatTempur {
         int mesin = 1;
         int body = 1;
         int roda = 3;
         int sayap = 2;
         void takeoff()
                   System.out.println ("Take Off");
         void landing()
         {
                   System.out.println ("Landing");
         void berhenti()
                   System.out.println ("Berhenti");
         void menembak()
                   System.out.println ("Menembak");
         }
         void maju()
                   System.out.println ("Maju");
         void mundur()
                   System.out.println ("Mundur");
         void belok()
                   System.out.println ("Belok");
         }
}
TestPesawatTempur.java - Notepad
File Edit Format View Help
public class TestPesawatTempur {
         public static void main (String [] args) {
          PesawatTempur TNI = new PesawatTempur ();
          TNI.menembak();
                   TNI. landing();
         }
}
```

C:\Windows\system32\cmd.exe Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved. C:\Users\User>cd\ C:\P80\javac TestPesawatTempur.java C:\P80\java TestPesawatTempur Menembak Landing C:\P80\