Tugas I Sebatik, 16 Maret 2021

PEMROGRAMAN BERORIENTASI OBJEK

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PROGRAM STUDI TEKNIK INFORMATIKA

FAKULTAS ILMU KOMPUTER

UNIVERSITAS MUSLIM INDONESIA

MAKASSAR

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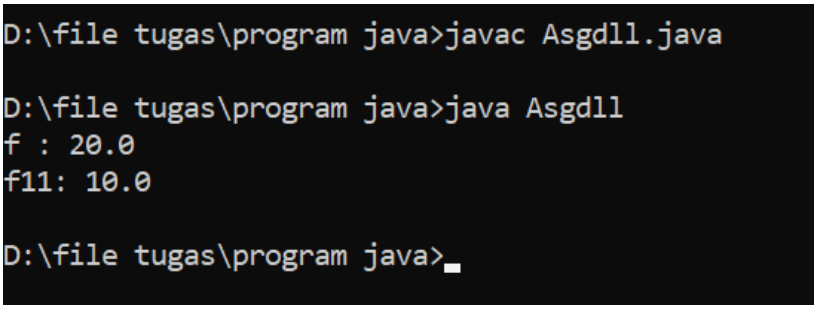
Kode Program 1

```
public class Asgdll {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* Kamus */
float f= 20.0f;
double fll;
/* Algoritma */
fll=10.0f;
System.out.println ("f : "+f +
"\nf11: "+fll);
}
}
```

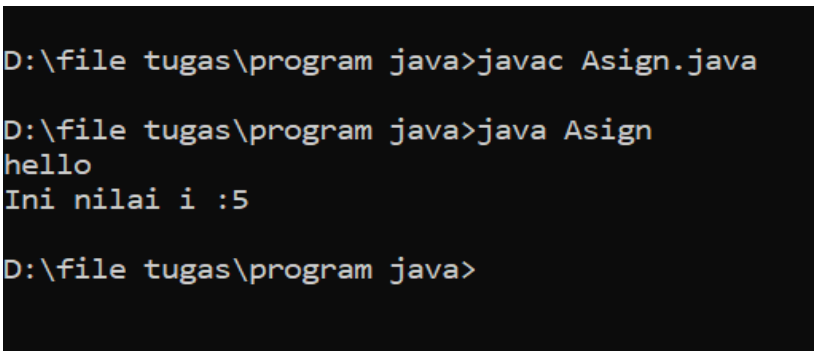
Output :



Kode Program 2

```
public class Asign {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* Kamus */
int i;
/* Program */
System.out.print ("hello\n"); i = 5;
System.out.println ("Ini nilai i :" + i);
}
}
```

Output



Kode Program 3

```
public class ASIGNi {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* KAMUS */
short ks = 1;int ki = 1;
long kl = 10000;
char c = 65; /* inisialisasi karakter dengan
integer */
char c1 = 'Z'; /* inisialisasi karakter dengan karakter */
double x = 50.2f;
float y = 50.2f;
/* Algoritma */
/* penulisan karakter sebagai karakter */
System.out.println ("Karakter = "+ c);
System.out.println ("Karakter = "+ c1);
/* penulisan karakter sebagai integer */
System.out.println ("Karakter = "+ c);
System.out.println ("Karakter = "+ c1);
System.out.println ("Bilangan integer (short) = "+ ks);
System.out.println ("\t(int) = "+ ki);
System.out.println ("\t(long)= "+ kl);
System.out.println ("Bilangan Real x = "+ x);
System.out.println ("Bilangan Real y = "+ y);
}
}
```

Output:

```
D:\file tugas\program java>javac ASIGNi.java

D:\file tugas\program java>java ASIGNi
Karakter = A
Karakter = Z
Karakter = A
Karakter = Z
Bilangan integer (short) = 1
        (int) = 1
        (long)= 10000
Bilangan Real x = 50.20000076293945
Bilangan Real y = 50.2

D:\file tugas\program java>_
```

Kode Program 4

```
import java.util.Scanner;
/* contoh membaca integer menggunakan Class Scanner*/
public class BacaData {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* Kamus */
int a;
Scanner masukan;
/* Program */
System.out.print ("Contoh membaca dan menulis, ketik nilai integer: \n");
masukan = new Scanner(System.in);
a = masukan.nextInt(); /* coba ketik : masukan.nextInt(); ;
Apa akibatnya ?*/
System.out.print ("Nilai yang dibaca : "+ a);
}
```

}

Output:

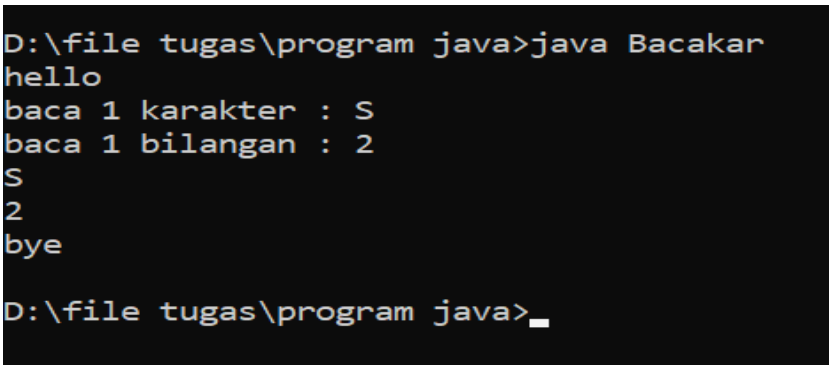
```
D:\file tugas\program java>javac BacaData.java

D:\file tugas\program java>java BacaData
Contoh membaca dan menulis, ketik nilai integer:
2
Nilai yang dibaca : 2
D:\file tugas\program java>
```

Kode Program 5

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
//import javax.swing.*;
public class Bacakar {
/**
* @param args
* @throws IOException
*/
public static void main(String[] args) throws IOException {
// TODO Auto-generated method stub
/* Kamus */
char cc;
int bil;
InputStreamReader isr = new InputStreamReader(System.in);
BufferedReader dataIn = new BufferedReader(isr);
// atau
BufferedReader datAIn = new BufferedReader(new
InputStreamReader(System.in));
```

```
/* Algoritma */
System.out.print ("hello\n");
System.out.print("baca 1 karakter : ");
//perintah baca karakter cc
cc =dataIn.readLine().charAt(0);
System.out.print("baca 1 bilangan : ");
//perintah baca bil
bil =Integer.parseInt(datAIn.readLine());
/*String kar = JOptionPane.showInputDialog("Karakter 1 : ");
System.out.println(kar);*/
//JOptionPane.showMessageDialog(null, "hello");
System.out.print (cc +"\n" +bil+"\n");
System.out.print ("bye \n");
}
}
```

Output



Kode Program 6

```
/*Casting menggunakan tipe data primitif*/
public class Casting1 {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
int a=5,b=6;
float d=2.f,e=3.2f;
char g='5';
double k=3.14;
System.out.println((float)a); // int <-- floatSystem.out.println((double)b); // int <-- double
System.out.println((int)d); // float <-- int
System.out.println((double)e); // float <-- double
System.out.println((int)g); // char <-- int (ASCII)
System.out.println((float)g); // char <-- float (ASCII)
System.out.println((double)g); // char <-- double (ASCII)
System.out.println((int)k); // double <-- int
System.out.println((float)k); // double <-- float
}
}
```

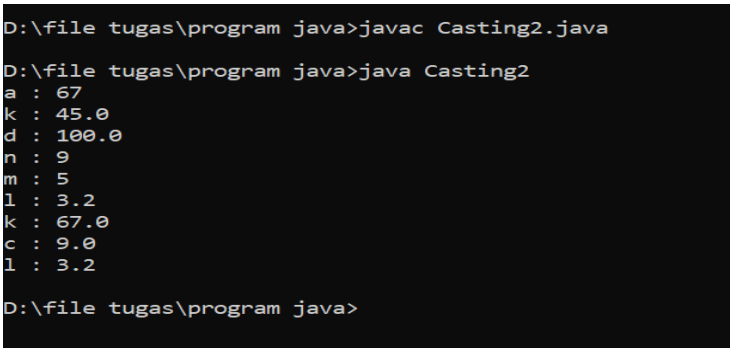
Output:

```
D:\file tugas\program java>javac Casting1.java

D:\file tugas\program java>java Casting1
5.0
2
3.200000047683716
53
53.0
53.0
3
3.14

D:\file tugas\program java>
```

Kode Program 7

```
/*Casting menggunakan tipe data Class*/
public class Casting2 {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
int a=8,b=9;
float d=2.f,e=3.2f;
char g='5';
double k=3.14;
String n="67",m="45", l="100";
a = Integer.parseInt(n); /*Konversi String ke Integer*/
k = Double.parseDouble(m); /*Konversi String ke Double*/
d = Float.parseFloat(l); /*Konversi String ke Float*/
System.out.println("a : "+a+"\nk : "+k+"\nd : "+d);
n = String.valueOf(b); /*Konversi Integer ke String*/
m = String.valueOf(g); /*Konversi Karakter ke String*/
l = String.valueOf(e); /*Konversi Float ke String*/
System.out.println("n : "+n+"\nm : "+m+"\nl : "+l);
k = Double.valueOf(a).intValue(); /*Konversi Integer ke
Double*/
double c = Integer.valueOf(b).doubleValue();
System.out.println("k : "+k+"\nc : "+c+"\nl : "+l);
}
}
```

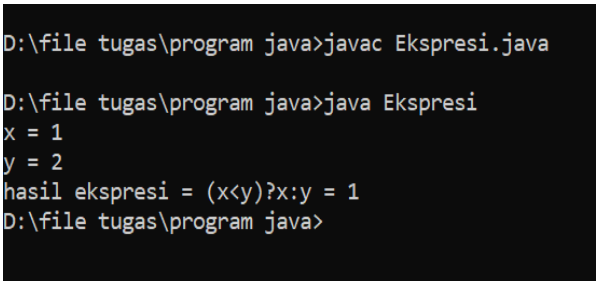
Output:



Kode Program 8

```
/* pemakaian operator kondisional */
public class Ekspresi {
/**
* @param args
*/
public static void main(String[] args) {// TODO Auto-generated method stub
/* KAMUS */
int x = 1;
int y = 2;
/* ALGORITMA */
System.out.print("x = "+ x + "\n");
System.out.print("y = "+ y + "\n");
System.out.print("hasil ekspresi = (x<y)?x:y = "+ ((x < y) ?
x : y)); /*Gunakan dalam kurung "(statemen dan kondisi)" untuk menyatakan
satu kesatuan pernyataan*/
}
}
```

Output:



Kode Program 9

```
/* pembagian integer, casting */
public class Ekspresi1 {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* KAMUS */
int x = 1; int y = 2; float fx; float fy;
/* ALGORITMA */
System.out.print ("x/y (format integer) = "+ x/y);
System.out.print ("\nx/y (format float) = "+ x/y);
/* supaya hasilnya tidak nol */
fx=x;
fy=y;
System.out.print ("\nx/y (format integer) = "+ fx/fy);
System.out.print ("\nx/y (format float) = "+ fx/fy);
/* casting */
System.out.print ("\nfloat(x)/float(y) (format integer) = "+
(float)x/(float)y);
System.out.print ("\nfloat(x)/float(y) (format float) = "+
```

(float)x/(float)y);

x = 10; y = 3;

System.out.print ("\nx/y (format integer) = "+ x/y);

System.out.print ("\nx/y (format float) = "+ x/y);

}

}

Output:

```
D:\file tugas\program java>java Ekspresi 1
x = 1
y = 2
hasil ekspresi = (x<y)?x:y = 1
D:\file tugas\program java>
```

Kode Program 10

public class Hello {/**

* @param args

*/

public static void main(String[] args) {

// TODO Auto-generated method stub

/* menuliskan hello ke layar */

System.out.print("Hello");

/* menuliskan hello dan ganti baris*/

System.out.print("\nHello ");

/* menuliskan hello dan ganti baris*/

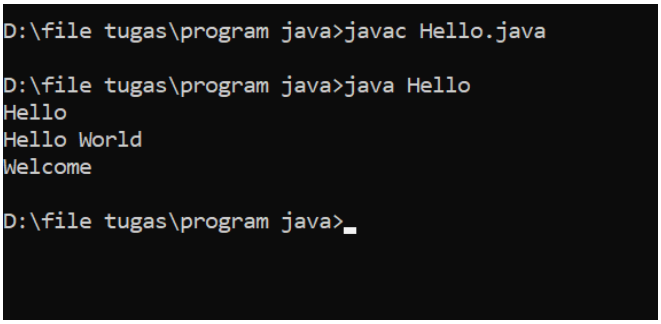
System.out.println("World");

System.out.println("Welcome");

}

}

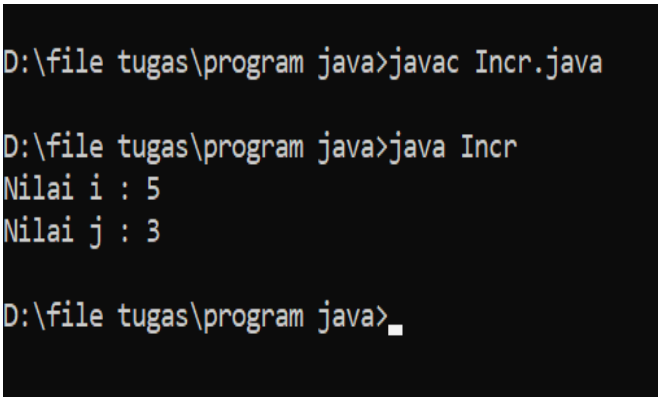
Output:



Kode Program 11

```
/* Effek dari operator ++ */
public class Incr {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* Kamus */
int i, j;
/* Program */
i = 3;
j = i++;
System.out.println ("Nilai i : " + (++i) +
"\nNilai j : " + j);
}
}
```

Output:

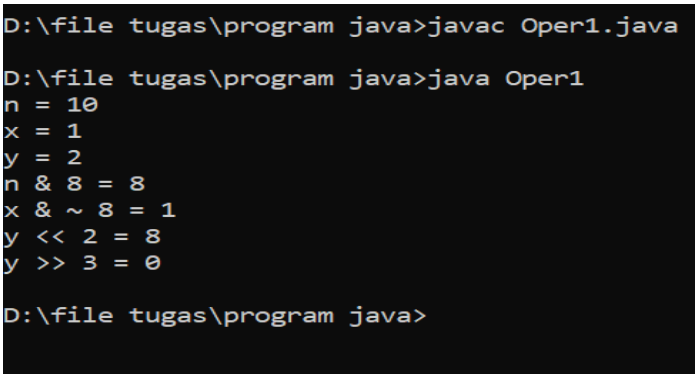


Kode Program 12

```
/* pemakaian beberapa operator terhadap bit */
public class Oper1 {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* KAMUS */
int n = 10; /* 1010 */
int x = 1; /* 1 */
int y = 2; /* 10 *//* ALGORITMA */
System.out.println ("n = "+ n);
System.out.println ("x = "+ x);
System.out.println ("y = "+ y);
System.out.println ("n & 8 = "+ (n & 8)); /* 1010 AND 1000 */
System.out.println ("x & ~ 8 = "+ (x & ~8)); /* 1 AND
0111 */
System.out.println ("y << 2 = "+ (y << 2)); /* 10 ==>
1000 = 8 */
```

```
System.out.println ("y >> 3 = "+ (y >>3)); /* 10 ==>
0000 = 0 */
}
}
```

Ouput:

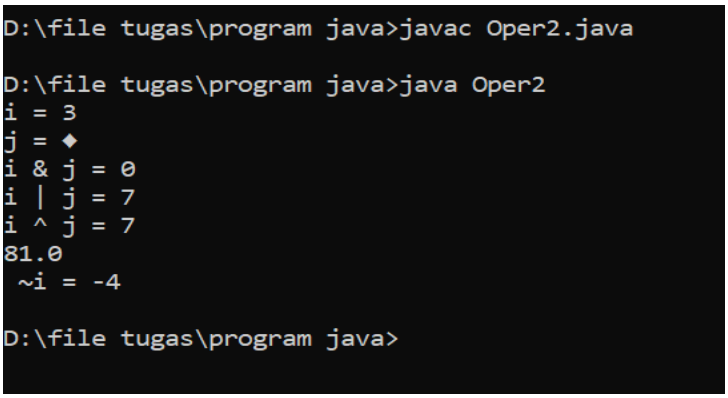


Kode Program 13

```
/* pemakaian beberapa operator terhadap RELATIONAL DAN bit */
public class Oper2 {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* KAMUS */
char i, j;
/* ALGORITMA */
i = 3; /* 00000011 dalam biner */
j = 4; /* 00000100 dalam biner */
System.out.println("i = "+ (int) i);
System.out.println("j = "+ j);
```

```
System.out.println("i & j = "+ (i & j)); /* 0: 00000000 dalam
biner */
System.out.println("i | j = "+ (i | j)); /* 7:
00000111 biner */
System.out.println("i ^ j = "+ (i ^ j)); /* 7:
00000111 biner Ingat!!! operator "^" pada bahasa java bukan
sebagai pangkat*/
System.out.println(Math.pow(i, j)); /* Class Math
memiliki method pow(a,b) untuk pemangkatan*/
System.out.println(" ~i = "+ ~i); /* -4: 11111100
biner */
}
}
```

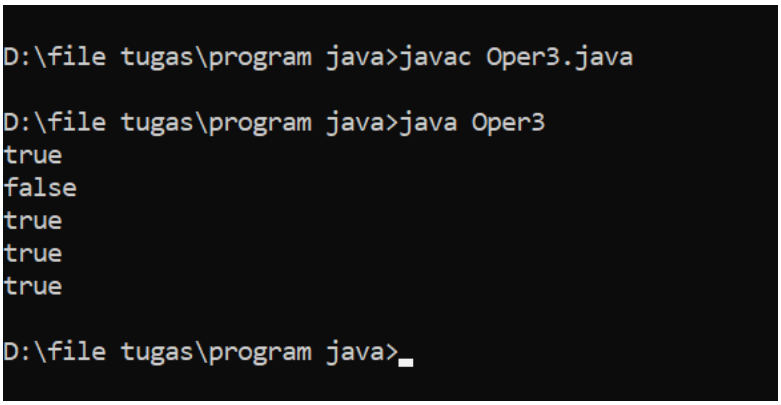
Output:



Kode Program 14

```
public class Oper3 {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* Algoritma */
if (true && true){ System.out.println(true && true); }
/* true = true and true */
if (true & true) { System.out.println(true & false); } /*
true & true */
if (true) { System.out.println(true); } /* true
*/
if (true || true){ System.out.println(true); } /* true
= true or true */
if (true|false) { System.out.println(true|false); } /*
true|false */
}
}
```

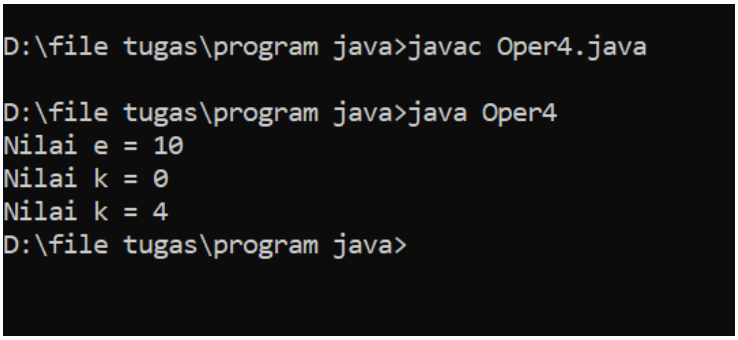
Output:



Kode Program 15

```
* Operator terner */
public class Oper4 {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* KAMUS */
int i = 0; /* perhatikan int i,j=0 bukan seperti ini */
int j = 0;
char c = 8; char d = 10;
int e = (((int)c > (int)d) ? c: d);
int k = ((i>j) ? i: j);
/* ALGORITMA */
System.out.print ("Nilai e = "+ e);
System.out.print ("\nNilai k = "+ k);
i = 2;
j = 3;
k = ((i++>j++) ? i: j) ;
System.out.print ("\nNilai k = "+ k);
}
}
```

Output:



Kode Program 16

```
/* Contoh pengoperasian variabel bertype dasar */
public class Oprator {
/**
* @param args
*/
public static void main(String[] args) {
// TODO Auto-generated method stub
/* Kamus */
boolean Bool1, Bool2, TF ; int i,j, hsl ;
float x,y,res;
/* algoritma */
System.out.println ("Silahkan baca teksnya dan tambahkan perintah untuk menampilkan output");
Bool1 = true; Bool2 = false;
TF = Bool1 && Bool2 ; /* Boolean AND */
TF = Bool1 || Bool2 ; /* Boolean OR */
TF = ! Bool1 ; /* NOT */
TF = Bool1 ^Bool2; /* XOR */
/* operasi numerik */
i = 5; j = 2 ;
```

```
hsl = i+j; hsl = i - j; hsl = i / j; hsl = i * j;

hsl = i /j ; /* pembagian bulat */

hsl = i%j ; /* sisa. modulo */

/* operasi numerik */

x = 5 ; y = 5 ;

res = x + y; res = x - y; res = x / y; res = x *

y;

/* operasi relasional numerik */

TF = (i==j); TF = (i!=j);

TF = (i < j); TF = (i > j); TF = (i <= j); TF =

(i >= j);

/* operasi relasional numerik */

TF = (x != y);

TF = (x < y); TF = (x > y); TF = (x <= y); TF =

(x >= y);

}

}
```

Output: