

Profil Dosen

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Perkuliahan

Pelaksanaan dan Tata tertib

Presensi minimal 75%

Kehadiran paling lambat 15 menit setelah kuliah dimulai

Tidak diperkenankan menggunakan kaos oblong dan sandal

Selama perkuliahan berlangsung, dilarang menggunakan ponsel

Selama perkuliahan berlangsung, dilarang makan dan minum di dalam kelas

Penilaian

Presentasi Kategori

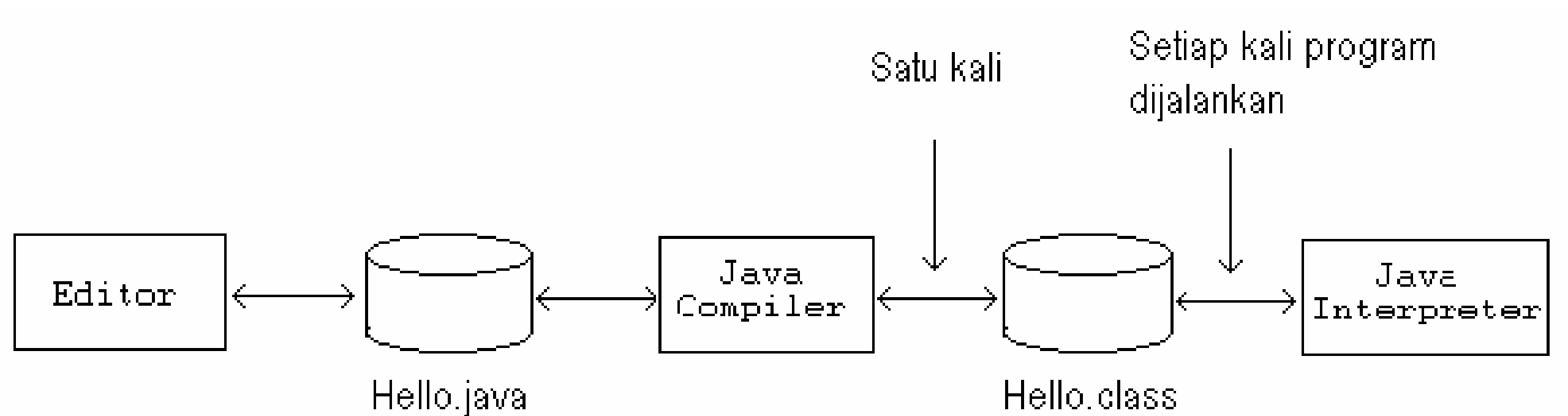
Praktikum	30%
UTS	35%
UAS	35%

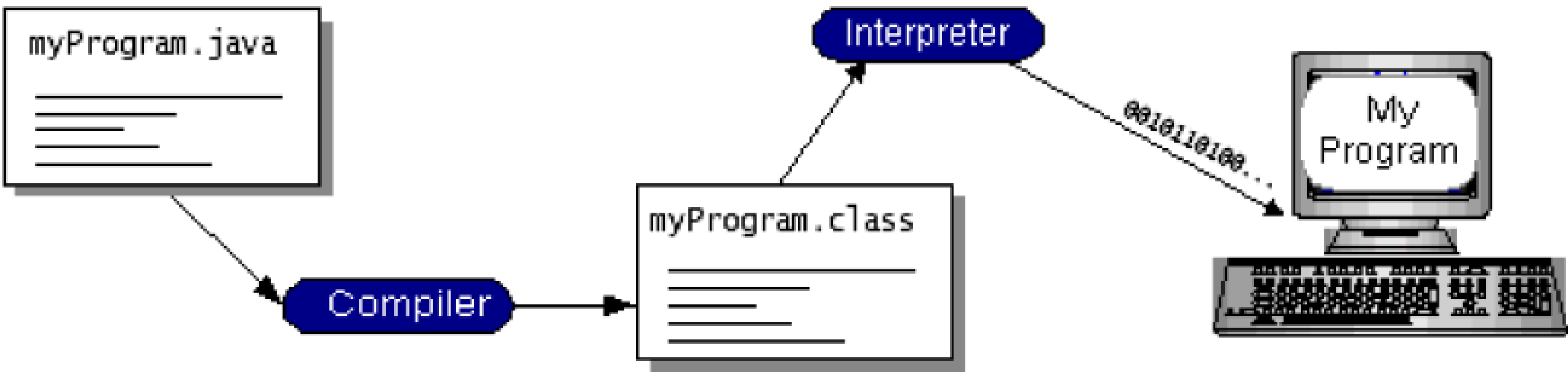
Total 100%

*Mahasiswa yang presensinya
kurang dari 75%,
tidak bisa mengikuti UAS*

1. Pendahuluan PBO
2. Kelas & Objek
3. Prinsip Prinsip Perancangan Kelas
4. Pewarisan
5. Pewarisan Jamak & Interface
6. Polimorfisme
7. Relasi Kelas
8. Kelas Template
9. Exception Handling
10. Event Handling
11. OOP GUI



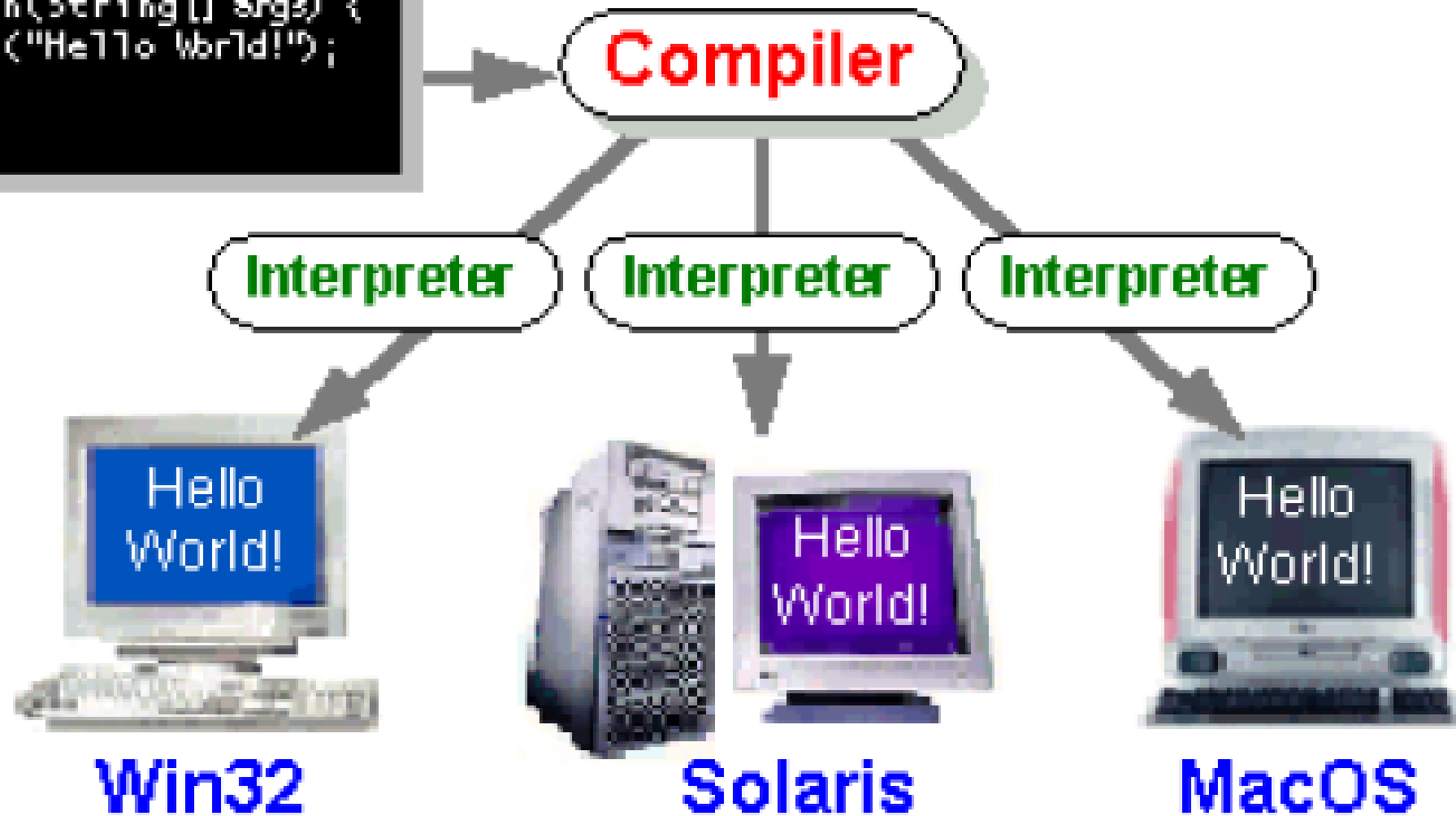




Java Program

```
class HelloWorldApp {  
    public static void main(String[] args) {  
        System.out.println("Hello World!");  
    }  
}
```

HelloWorldApp.java



Java™



while
if
do
for

Statemen Kontrol

Statemen kontrol digunakan untuk mengatur jalannya alur program sesuai dengan yang kita inginkan

Jenis Statemen

- Pemilihan (Branching)
- Pengulangan (Looping)
- Peloncatan (jumping)



```
public class DemoFor3 {  
    public static void main (String [] args) {  
        int n = 5;  
        int hasil = 0;  
        for (int i = 1; i<=n; i++){  
            hasil += i;  
            if (i != n) {  
                System.out.print (i + " + " );  
            }else {  
                System.out.print (i + " = " );  
            }  
        }  
        System.out.println (hasil);  
    }  
}
```

`RUN:`

`1 + 2 + 3 + 4 + 5 = 15`

`BUILD SUCCESSFUL (total time: 0 seconds)`

```
public class DemoFor6 {  
    public static void main (String [] args) {  
        int i,j;  
        for (i=0, j=4; i<5; i++, j--){  
            System.out.println ("Nilai i : " + i);  
            System.out.println ("Nilai j : " + j);  
            System.out.println ();  
        }  
    }  
}
```

```
run:
```

```
Nilai i : 0
```

```
Nilai j : 4
```

```
Nilai i : 1
```

```
Nilai j : 3
```

```
Nilai i : 2
```

```
Nilai j : 2
```

```
Nilai i : 3
```

```
Nilai j : 1
```

```
Nilai i : 4
```

```
Nilai j : 0
```

```
BUILD SUCCESSFUL (total time: 0 seconds)
```



```
public class DemoDoWhile {
    public static void main (String [] args){
        int bilangan = 5;
        int hasil = 1;
        System.out.print (bilangan + " != ");
        if (bilangan ==0){
            System.out.println (hasil);
            System.exit (1);
        }
        int i = bilangan;
        do {
            System.out.print (i);
            if (i!=1){
                System.out.print (" X ");
            }else{
                System.out.print (" = ");
            }
            hasil *=i;
            i--;
        }while (i>=1);
        System.out.println (hasil);
    }
}
```

run:

$$5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$$

BUILD SUCCESSFUL (total time: 0 seconds)

-

run:

1

2 4

3 6 9

4 8 12 16

5 10 15 20 25

BUILD SUCCESSFUL (total time: 0 seconds)

```
public class DemoForBersarang {
    public static void main (String [] args){
        for (int i = 1; i<=5; i++){
            for (int j = 1; j<=i; j++){
                System.out.print (i*j + " ");
            }
            System.out.println ();
        }
    }
}
```

```
public class DemoWhileBersarang {
    public static void main (String [] args){
        int i = 1, j;
        while (i<=5){
            j = 1;
            while (j<=i){
                System.out.print (i*j + " ");
                j++;
            }
            System.out.println();
            i++;
        }
    }
}
```

```
public class DemoDoWhileBersarang {
    public static void main (String [] args){
        int i = 1, j;
        do {
            j = 1;
            do {
                System.out.print (i*j + " ");
                j++;
            } while (j<=i);
            System.out.println ();
            i++;
        } while (i<=5);
    }
}
```

```
public class DemoBreak1 {  
    public static void main (String [] args) {  
        for (int i=0; i<10; i++) {  
            if (i == 5) {  
                break;  
            }  
            System.out.println ("Baris ke-" + i);  
        }  
        System.out.println ("Statemen setelah blok pengulangan");  
    }  
}
```

run:

Baris ke-0

Baris ke-1

Baris ke-2

Baris ke-3

Baris ke-4

Statemen setelah blok pengulangan

BUILD SUCCESSFUL (total time: 0 seconds)

```
public class DemoContinue {
    public static void main (String [] args) {
        for (int i =0; i<10; i++){
            System.out.print (i + " ");
            if (i % 2 == 0) {
                continue;
            }
            System.out.println ();
        }
    }
}
```

run:

0 1

2 3

4 5

6 7

8 9

BUILD SUCCESSFUL (total time: 0 seconds)

```
public class DemoArray2D {  
    public static void main (String [] args) {  
        int [][] duaD = new int [2][3];  
        int k = 1;  
        for (int i=0;i<2;i++){  
            for (int j=0;j<3;j++){  
                duaD [i][j] = k*10;  
                System.out.print (duaD[i][j]);  
                if (j<2) System.out.print (" ");  
                k++;  
            }  
            System.out.println ();  
        }  
    }  
}
```

RUN:

10 20 30

40 50 60

BUILD SUCCESSFUL (total time: 0 seconds)

```
public class DemoModulus {  
    public static void main (String [] args) {  
        int a = 11, b = 4;  
        int c = a%b;  
        double da = 13.75;  
        double dc = da%b;  
        System.out.println ("Sisa bagi " +a+ "/" +b+ " adalah" +c);  
        System.out.println ("Sisa bagi " +da+ "/" +b+ " adalah" +dc);  
    }  
}
```


run:

Sisa bagi $11/4$ adalah 3

Sisa bagi $13.75/4$ adalah 1.75

BUILD SUCCESSFUL (total time: 0 seconds)

```
public class DemoIncrement {  
    public static void main (String []args) {  
        int a = 5;  
        System.out.println("Pre-Increment");  
        System.out.println("a\t: " +a);  
        System.out.println ("++a\t: " + ++a);  
        System.out.println("a\t: " +a);  
        int b = 5;  
        System.out.println("\nPost-Increment");  
        System.out.println("b\t: " +b);  
        System.out.println ("b++\t: " + b++);  
        System.out.println("a\t: " +b);  
    }  
}
```

```
run:
```

Pre-Increment

```
a      : 5
```

```
++a    : 6
```

```
a      : 6
```

Post-Increment

```
b      : 5
```

```
b++    : 5
```

```
a      : 6
```

```
BUILD SUCCESSFUL (total time: 0 seconds)
```