

LAPORAN PERTEMUAN 8

AksesSistem

```
package pert8;
```

```
public interface AksesSistem {
```

```
// =====
```

```
// METHOD ABSTRAK (WAJIB DIIMPLEMENTASIKAN)
```

```
// =====
```

```
void login(String pin);
```

```
void logout();
```

```
// =====
```

```
// DEFAULT METHOD (OPSIONAL)
```

```
// =====
```

```
default String getRoleAkses() {
```

```
    return "Staff Biasa";
```

```
}
```

```
}
```

KaryawanKontrak

```
package pert8;
```

```
public interface KaryawanKontrak {
```

```
// =====
```

```
// METHOD ABSTRAK (WAJIB)
```

```
// =====
```

```
// Method wajib
```

```
double hitungGaji(int jamKerja);
void perpanjangKontrak(int durasiBulan);

// Default method opsional
default String getStatusCuti() {
    return "Tersedia 12 hari";
}

// Method login menggunakan PIN
void login(String pin);

// Method logout
void logout();

// =====
// DEFAULT METHOD (OPSIONAL)
// =====

default String getRoleAkses() {
    return "Staff Biasa";
}

}
```

ProgrammerMagang

```
package pert8;
```

```
// CLASS ProgrammerMagang harus MENGIMPLEMENTASIKAN (implements)
KaryawanKontrak dan AksesSistem
public class ProgrammerMagang implements KaryawanKontrak, AksesSistem {

// Atribut
private String nama;
```

```
private double gajiPerJam;
private String pinRahasia;
private boolean sedangLogin;

// Constructor
public ProgrammerMagang(String nama, double gajiPerJam, String pinRahasia) {
    this.nama = nama;
    this.gajiPerJam = gajiPerJam;
    this.pinRahasia = pinRahasia;
    this.sedangLogin = false;
}

// =====
// Implementasi KaryawanKontrak
// =====

@Override
public double hitungGaji(int jamKerja) {
    double total = jamKerja * gajiPerJam;
    System.out.println("Gaji " + nama + " (" + jamKerja + " jam) adalah: Rp " + total);
    return total;
}

@Override
public void perpanjangKontrak(int durasiBulan) {
    System.out.println("Kontrak diperpanjang " + durasiBulan + " bulan.");
}

@Override
public String getStatusCuti() {
    return "Tersedia 5 hari";
}

// =====
```

```

// Implementasi AksesSistem
// =====

@Override
public void login(String pin) {
    if (pin.equals(pinRahasia)) {
        sedangLogin = true;
        System.out.println("Login Berhasil. Selamat datang, " + nama + "!");
    } else {
        System.out.println("Login Gagal: PIN salah.");
    }
}

@Override
public void logout() {
    sedangLogin = false;
    System.out.println(nama + " berhasil logout.");
}

@Override
public String getRoleAkses() {
    return "Magang IT";
}

```

UjiSDM

```
package pert8;
```

```

public class UjiSDM {
    public static void main(String[] args) {
        System.out.println("== PENGUJIAN PROGRAMMER MAGANG ==");
    }
}
```

```
// 1. Buat objek
ProgrammerMagang andi = new ProgrammerMagang("Andi", 50000.0, "1234");

// 2. Pengujian
andi.hitungGaji(160);

System.out.println("Status Cuti: " + andi.getStatusCuti());

andi.login("9999"); // salah
andi.login("1234"); // benar

System.out.println("Role Akses: " + andi.getRoleAkses());

andi.perpanjangKontrak(6);

andi.logout();
}

}
```

Output :

```
"C:\Program Files\Java\JDK1.8.0_111\bin\java.exe" ...
== PENGUJIAN PROGRAMMER MAGANG ==
Gaji Andi (160 jam) adalah: Rp 8000000.0
Status Cuti: Tersedia 5 hari
Login Gagal: PIN salah.
Login Berhasil. Selamat datang, Andi!
Role Akses: Magang IT
Kontrak diperpanjang 6 bulan.
Andi berhasil logout.
```