# Laporan Kuis Praktikum Pemrograman Berbasis Objek



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# Struktur Kode

#### Class Karakter

```
• • •
public class Character {
 private String name;
  public String getName() {
   health -= damage;
    System.out.println(name + " took " + damage + " damage! Remaining health: " + health);
```

## **Class Player**

```
public class Player extends Character {
  private int level;

public Player(String name, int health, int attackPower, int level) {
    super(name, health, attackPower);
    this.level = level;
}

public void healing(){
    this.setHealth(this.getHealth() + 5);
}

@Override
public void attack(Character target) {
    int damage = (int) (super.getHealth() * 0.1) + level;
    System.out.println(getName() + " attacks with sword! Damage: " + damage);
    target.takeDamage(damage);
}
```

### **Class Monster**

```
public class Monster extends Character {
  private String type;

public Monster(String name, int health, int attackPower, String type) {
    super(name, health, attackPower);
    this.type = type;
  }

@Override
public void attack(Character target) {
    int damage = (int) (Math.random() * 10) + 5;
    System.out.println(getName() + " (" + type + ") attacks ferociously! Damage: " + damage);
    target.takeDamage(damage);
  }
}
```

# **Class BossMonster**

```
public class BossMonster extends Character {
  public BossMonster(String name, int health, int attackPower) {
     super(name, health, attackPower);
  }

@Override
  public void attack(Character target) {
     int damage = (int) (getAttackPower() * 2);
     System.out.println(getName() + " ( Boss Monster ) attacks ferociously! Damage: " + damage);
     target.takeDamage(damage);
  }
}
```

#### **Class GameTest**

```
public class GameTest {
     Player singgih = new Player("Singgih", 100, 20, 5);
Monster goblin = new Monster("Goblin", 80, 15, "Goblin");
BossMonster dragon = new BossMonster("Dragon", 200, 20);
      Character[] enemies = {goblin, dragon};
      while (singgih.getHealth() > 0 && (goblin.getHealth() > 0 || dragon.getHealth() > 0)) {
   System.out.println("\n--- Turn " + turn + " ---");
                break;
         for (Character enemy : enemies) {
  if (enemy.getHealth() > 0) {
      System.out.println("\n=== Battle End ===");
```

# **Hasil Running Program**

```
) java GameTest
■ Battle Start ■
--- Turn 1 ---
Singgih attacks with sword! Damage: 15
Goblin took 15 damage! Remaining health: 65
Goblin (Goblin) attacks ferociously! Damage: 5
Singgih took 5 damage! Remaining health: 95
Dragon (Boss Monster) attacks ferociously! Damage: 40
Singgih took 40 damage! Remaining health: 55
--- Turn 2 ---
Singgih attacks with sword! Damage: 10
Goblin took 10 damage! Remaining health: 55
Goblin (Goblin) attacks ferociously! Damage: 8
Singgih took 8 damage! Remaining health: 47
Dragon (Boss Monster) attacks ferociously! Damage: 40
Singgih took 40 damage! Remaining health: 7
--- Turn 3 ---
Singgih attacks with sword! Damage: 5
Goblin took 5 damage! Remaining health: 50
Goblin (Goblin) attacks ferociously! Damage: 9
Singgih took 9 damage! Remaining health: 0
Dragon ( Boss Monster ) attacks ferociously! Damage: 40
Singgih took 40 damage! Remaining health: 0
Singgih uses healing! Health: 5
--- Turn 4 ---
Singgih attacks with sword! Damage: 5
Goblin took 5 damage! Remaining health: 45
Goblin (Goblin) attacks ferociously! Damage: 14
Singgih took 14 damage! Remaining health: 0
Dragon (Boss Monster) attacks ferociously! Damage: 40
Singgih took 40 damage! Remaining health: 0
■ Battle End ■
Singgih has been defeated...
```