

Homework

Task 1:

1. Multiple Inheritance is the process whereby a sub-class can be derived from more than one super class.
 - The advantage of multiple inheritance is that it allows a class to inherit the functionality of more than one base class thus allowing for modeling of complex relationships.
 - The disadvantage of multiple inheritance is that it can lead to a lot of confusion when two base classes implement a method with the same name.

Example:

```
<?php

//The base class
class Animal {
    // Private property inside the class
    private string $name;

    //Public setter method
    public function setName($name) {
        $this -> name = $name;
    }

    public function speak() {
        return " I speak ". $this -> name . "!";
    }
}

//The child class get the code from the base class
class Dog extends Animal {}

//Create an object from the child class
$speak1 = new Dog();
$speak1 -> setName('Woo');
echo $speak1 -> speak();

?>
```