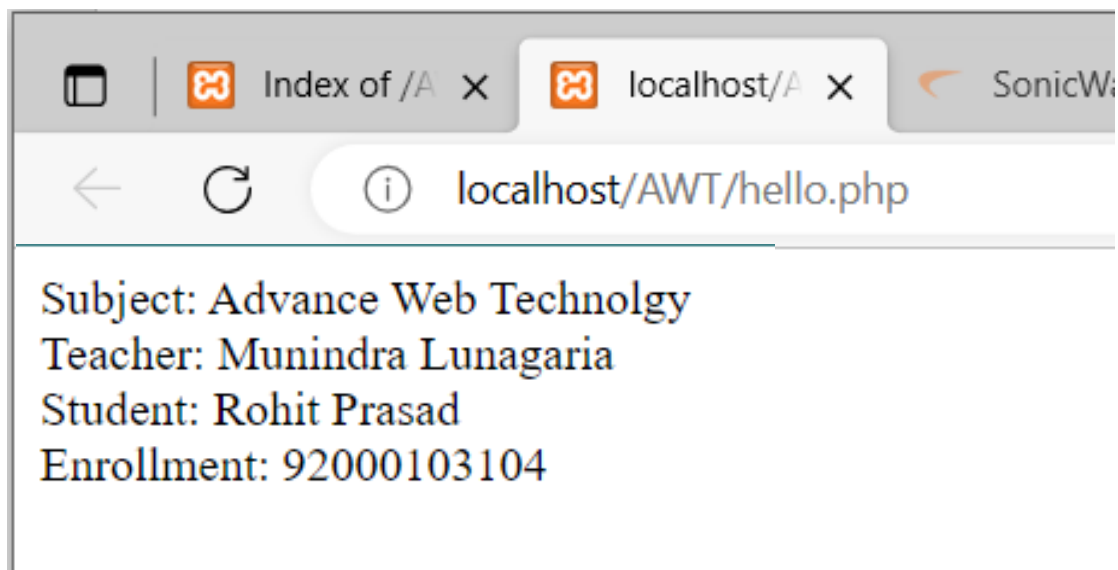


Lab #4(a)

Lab#4(a) Implement OOP concepts with PHP for following program: Use Student, Teacher and Subject Class to define relation between each of them. Display the details of the student studying a particular subject under a particular teacher. Use Constructors and Polymorphism.

METHODS USED	ATTRIBUTES USED	DESCRIPTION
constructor	function_construct(\$name)	A constructor allows you to initialize an object's properties upon creation of the object.
getter	function get_enrollment()	A getter allows to you to retrieve or get a given property.
parent constructor	parent::__construct(\$name)	Parent constructors are not called implicitly if the child class defines a constructor.
inheritance	class Student extends Name	When a class derives from another class allowing to reuse code.
Method overriding	function get_name()	Both parent and child classes should have same method name with and number of arguments.

Final Outcome:



Lab #4(a)

Code Snippet:

```
<?php
class Name{
    protected $name;
    function __construct($name){
        $this->name = $name;
    }
}

class Student extends Name{
    private $enrollment;
    function __construct($name, $enrollment){
        parent::__construct($name);
        $this->enrollment = $enrollment;
    }

    function get_enrollment(){
        return $this->enrollment;
    }
    function get_name(){
        return $this->name;
    }
}

class Teacher extends Name{
    function __construct($name){
        parent::__construct($name);
    }
    function get_name(){
        return $this->name;
    }
}

class Subject{
    private $subjectname;
    private $teacher;
    private $student;

    public function __construct($subjectname, $teacher){
        $this->subjectname = $subjectname;
        $this->teacher = $teacher;
    }

    public function addStudent(Student $student){
```

Lab #4(a)

```
$this->student = $student;
}

public function getSubjectName(){
    return $this->subjectname;
}

public function getTeacher(){
    return $this->teacher;
}

public function getStudent(){
    return $this->student;
}
}

$teacher = new Teacher("Munindra Lunagaria");
$student = new Student("Rohit Prasad",92000103104);

$awt = new Subject("Advance Web Technolgy", $teacher);
$awt->addStudent($student);

echo "Subject: " . $awt->getSubjectName() . "<br>";
echo "Teacher: " . $awt->getTeacher()->get_name() . "<br>";
echo "Student: " . $awt->getStudent()->get_name() . "<br>";
echo "Enrollment: " . $awt->getStudent()->get_enrollment();
?>
```