<?php

class Book {

public $title;

protected $author;

private $price;

public function \_\_construct($title, $author, $price) {

$this->title = $title;

$this->author = $author;

$this->setPrice($price);

}

public function getDetails() {

return "Title: {$this->title}, Author: {$this->author}, Price: \${$this->price}";

}

public function setPrice($price) {

if ($price > 0) {

$this->price = $price;

} else {

echo "Price must be a positive number.<br>";

}

}

public function \_\_call($name, $arguments) {

if ($name === 'updateStock') {

return "Stock updated for '{$arguments[0]}' with arguments: " . implode(', ', $arguments);

} else {

return "Method $name does not exist.";

}

}

}

class Library {

private $books = [];

public $name;

public function \_\_construct($name) {

$this->name = $name;

}

public function addBook(Book $book) {

$this->books[] = $book;

}

public function removeBook($title) {

foreach ($this->books as $key => $book) {

if ($book->title === $title) {

unset($this->books[$key]);

return "Book '{$title}' removed from the library.";

}

}

return "Book '{$title}' not found.";

}

public function listBooks() {

if (empty($this->books)) {

return "No books available in the library.";

}

$details = ["Books in the library:"];

foreach ($this->books as $book) {

$details[] = $book->getDetails();

}

return implode("<br>", $details);

}

public function \_\_destruct() {

echo "<br>The Library '{$this->name}' is now closed.";

}

}

$library = new Library("City Library");

$book1 = new Book("The Great Gatsby", "F. Scott Fitzgerald", 12.99);

$book2 = new Book("1984", "George Orwell", 8.99);

$library->addBook($book1);

$library->addBook($book2);

echo $book1->updateStock("The Great Gatsby", 50) . "<br>";

echo $library->listBooks() . "<br>";

echo $library->removeBook("1984") . "<br>";

echo "Books in the library after removal:<br>";

echo $library->listBooks() . "<br>";

// Destroy the Library object to trigger the destructor

unset($library);

?>

