

ACTIVE LEARNING WORKSHEET

Session 00 & Session 01: Introduction to Web Development with PHP

INS3064: Multimedia Design & Web Development

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Date:

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PART A: KNOWLEDGE SYNTHESIS

A1. Key Concepts

Concept	Definition (Based on provided text)	Example
PHP	Stands for PHP: Hypertext Preprocessor . It is a server-side scripting language specifically designed for web development.	<?php ... ?>
echo	An output statement used to display data. It has no return value, is slightly faster than <code>print</code> , and can accept multiple parameters.	<code>echo "Hello";</code>
Server-side	This means the code executes on the web server before sending content to the user. The user never sees the PHP code, only the HTML output it generates.	PHP processing data

A2. Multiple Choice Questions

1. PHP stands for?

- A) Personal Home Page
- **B) PHP: Hypertext Preprocessor**
- C) Pre Hypertext Processor
- D) Page Hypertext Programming

Answer: B

2. The correct PHP opening tag is?

- A) <php>
- **B) <?php**
- C) <script php>
- D) <?PHP

Answer: B

3. PHP statements end with?

- A) Period (.)
- B) Comma (,)
- C) Semicolon (;)
- D) No ending required

Answer: C

A3. Essay Questions

1. Explain the process from when a user enters a URL until the webpage is displayed.

Answer: The request-response cycle occurs in the following steps:

1. **Browser Request:** The user enters a URL.
2. **Server Receives:** The web server receives the HTTP request.
3. **PHP Processing:** The server identifies the .php file and passes it to the processor.
4. **Code Execution:** PHP processes the code (calculations, database queries, etc.).
5. **HTML Generation:** PHP generates HTML output.
6. **Response Sent:** The server sends the HTML back to the browser.
7. **Browser Display:** The browser renders the HTML for the user.

2. Why should you use echo instead of print?

Answer: You should use echo because it is slightly faster than print. Additionally, echo allows for multiple parameters (separated by commas), whereas print only accepts one parameter. The document explicitly recommends using echo for optimal performance and flexibility.

PART B: THEORETICAL EXERCISE

EXERCISE 1: Debug Code

Find and fix the errors in the following code:

PHP

```
<?phpecho "Hello World"  
echo "Welcome to PHP!";print "This is", "PHP";?>
```

Errors Identified:

1. **Opening Tag:** <?phpecho is incorrect; there must be a space or newline after <?php.
2. **Missing Semicolon:** The first statement "Hello World" is missing a semicolon ; at the end.
3. **Print Usage:** print is used with two parameters ("This is", "PHP"), but print only accepts one parameter.

Corrected Code:

PHP

```
<?php
// Added space after opening tag and semicolon at the end of the line
echo "Hello World";

echo "Welcome to PHP!";

// Changed print to echo because echo accepts multiple parameters
echo "This is", "PHP";
?>
```

PART C: PRACTICAL EXERCISE 1: Personal Information Page

File Name: myinfo.php **Description:** This page uses inline CSS to create a card interface displaying personal details and the current access time.

```
<!DOCTYPE html>
<html lang="vi">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Hồ Sơ Cá Nhân – Giang Lê Hiệp</title>

    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
        href="https://fonts.googleapis.com/css2?family=Be+Vietnam+Pro:wght@300;400;500;600;700&display=swap" rel="stylesheet">

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">

    <style>
        :root {
            --primary-color: #4f46e5; /* Indigo */
            --primary-gradient: linear-gradient(135deg, #4f46e5 0%, #818cf8 100%);
            --bg-gradient: linear-gradient(135deg, #f0f4ff 0%, #e0e7ff 100%);
```

```
--text-main: #1f2937;
--text-secondary: #6b7280;
--card-bg: #ffffff;
--item-bg: #f9fafb;
--shadow: 0 10px 40px -10px rgba(79, 70, 229, 0.15);
}

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: 'Be Vietnam Pro', sans-serif;
  background: var(--bg-gradient);
  min-height: 100vh;
  display: flex;
  justify-content: center;
  align-items: center;
  padding: 20px;
  color: var(--text-main);
}

.container {
  background: var(--card-bg);
  border-radius: 24px;
  box-shadow: var(--shadow);
  max-width: 480px;
  width: 100%;
  overflow: hidden;
  position: relative;
}

/* Header thiết kế lại nhẹ nhàng hơn */
.header {
  background: var(--primary-gradient);
```

```
        color: white;
        padding: 50px 30px 40px;
        text-align: center;
        position: relative;
        clip-path: ellipse(150% 100% at 50% 0%);
    }

.avatar-wrapper {
    position: relative;
    width: 110px;
    height: 110px;
    margin: 0 auto 15px;
}

.avatar {
    width: 100%;
    height: 100%;
    border-radius: 50%;
    background: white;
    display: flex;
    align-items: center;
    justify-content: center;
    font-size: 40px;
    color: var(--primary-color);
    border: 4px solid rgba(255, 255, 255, 0.3);
    box-shadow: 0 4px 6px rgba(0,0,0,0.1);
}

.header h1 {
    font-size: 24px;
    font-weight: 700;
    margin-bottom: 5px;
    letter-spacing: -0.5px;
}

.header p {
    opacity: 0.9;
```

```
        font-size: 14px;
        font-weight: 300;
        letter-spacing: 0.5px;
        text-transform: uppercase;
    }

.info-section {
    padding: 20px 30px;
    margin-top: 10px;
}

.info-item {
    display: flex;
    align-items: center;
    padding: 16px;
    margin-bottom: 12px;
    background: var(--item-bg);
    border: 1px solid #e5e7eb;
    border-radius: 16px;
    transition: all 0.2s ease-in-out;
}

.info-item:hover {
    background: white;
    border-color: var(--primary-color);
    transform: translateY(-2px);
    box-shadow: 0 4px 12px rgba(0, 0, 0, 0.05);
}

.icon {
    width: 42px;
    height: 42px;
    background: rgba(79, 70, 229, 0.1); /* Màu primary nhạt */
    color: var(--primary-color);
    border-radius: 12px;
    display: flex;
    align-items: center;
```

```
        justify-content: center;
        margin-right: 15px;
        font-size: 18px;
        transition: all 0.3s;
    }

.info-item:hover .icon {
    background: var(--primary-color);
    color: white;
}

.info-content {
    flex: 1;
}

.info-label {
    font-size: 11px;
    color: var(--text-secondary);
    margin-bottom: 2px;
    text-transform: uppercase;
    font-weight: 600;
    letter-spacing: 0.5px;
}

.info-value {
    font-size: 15px;
    color: var(--text-main);
    font-weight: 600;
}

.current-time {
    text-align: center;
    padding: 10px 30px 30px;
    border-top: 1px solid #f3f4f6;
    margin-top: 10px;
}
```

```
.current-time .info-label {
    margin-top: 20px;
}

.time-display {
    font-size: 26px;
    background: var(--primary-gradient);
    -webkit-background-clip: text;
    -webkit-text-fill-color: transparent;
    font-weight: 800;
    margin-top: 5px;
    letter-spacing: -0.5px;
    font-variant-numeric: tabular-nums; /* Giúp số không bị nhảy khi
thay đổi giây */
}
</style>
</head>
<body>
<div class="container">
    <div class="header">
        <div class="avatar-wrapper">
            <div class="avatar">
                <i class="fa-solid fa-user"></i>
            </div>
        </div>
        <h1>Giang Lê Hiệp</h1>
        <p>Hồ sơ sinh viên</p>
    </div>

    <div class="info-section">
        <div class="info-item">
            <div class="icon"><i class="fa-solid fa-signature"></i></div>
            <div class="info-content">
                <div class="info-label">Họ và Tên</div>
                <div class="info-value">Giang Lê Hiệp</div>
            </div>
        </div>
    </div>
</div>
```

```
<div class="info-item">
    <div class="icon"><i class="fa-solid fa-cake-candles"></i></div>
    <div class="info-content">
        <div class="info-label">Ngày Sinh</div>
        <div class="info-value">14/07/2005</div>
    </div>
</div>

<div class="info-item">
    <div class="icon"><i class="fa-solid fa-location-dot"></i></div>
    <div class="info-content">
        <div class="info-label">Quê Quán</div>
        <div class="info-value">Hưng Yên, Việt Nam</div>
    </div>
</div>

<div class="info-item">
    <div class="icon"><i class="fa-solid fa-heart"></i></div>
    <div class="info-content">
        <div class="info-label">Sở Thích</div>
        <div class="info-value">Đọc sách, Lập trình, Du lịch</div>
    </div>
</div>
</div>

<div class="current-time">
    <div class="info-label">Thời gian thực</div>
    <div class="time-display" id="currentTime">--:--:--</div>
</div>
</div>

<script>
    function updateTime() {

```

```

const now = new Date();
// Viết hoa chữ cái đầu cho Thứ
const options = {
    weekday: 'long',
    year: 'numeric',
    month: 'numeric',
    day: 'numeric',
    hour: '2-digit',
    minute: '2-digit',
    second: '2-digit'
};
// Format lại chuỗi thời gian cho gọn gàng hơn
let timeString = now.toLocaleDateString('vi-VN', options);

// Tùy chỉnh hiển thị nếu cần (Ví dụ: Thứ Hai, 14/07/2005 –
10:30:45)
// Hoặc giữ nguyên mặc định
document.getElementById('currentTime').textContent = timeString;
}

updateTime();
setInterval(updateTime, 1000);
</script>
</body>
</html>

```

PRACTICAL EXERCISE 2: Welcome Page (Strictly following the Worksheet)

File Name: welcome.php

```

<!DOCTYPE html>
<html lang="vi">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>EX2 WELCOME</title>

```

```
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Lexend:wght@300;400;500;600;700;800&display=swap" rel="stylesheet">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">

<style>
:root {
    --border-width: 3px;
    --border-color: #000000;
    --shadow-offset: 6px;
    --bg-color: #f0f0f0;
    --card-color: #ffffff;

    /* Palette màu Neo Pop */
    --color-purple: #a855f7;
    --color-yellow: #facc15;
    --color-blue: #3b82f6;
    --color-pink: #f472b6;
    --color-green: #4ade80;
}

* { margin: 0; padding: 0; box-sizing: border-box; }

body {
    font-family: 'Lexend', sans-serif;
    background-color: #e0e7ff;
    /* Tạo họa tiết chấm bi nền */
    background-image: radial-gradient(#cbd5e1 1px, transparent 1px);
    background-size: 20px 20px;
    min-height: 100vh;
    display: flex;
    justify-content: center;
    align-items: center;
```

```
padding: 20px;
}

/* --- Main Container --- */
.main-card {
    display: flex;
    width: 100%;
    max-width: 800px;
    background: var(--card-color);
    border: 4px solid var(--border-color); /* Viền bao ngoài cực dày
*/
    border-radius: 20px;
    /* Bóng đổ cứng (Hard Shadow) */
    box-shadow: 10px 10px 0px var(--border-color);
    overflow: hidden;
    flex-wrap: wrap; /* Để responsive trên mobile */
}

/* --- Cột Trái (Màu nền đậm) --- */
.left-panel {
    flex: 2;
    min-width: 300px;
    background: var(--color-purple);
    padding: 40px;
    color: white;
    display: flex;
    flex-direction: column;
    justify-content: space-between;
    border-right: 4px solid var(--border-color);
    position: relative;
}

.brand-badge {
    background: black;
    color: white;
    padding: 8px 16px;
    border-radius: 50px;
```

```
    font-weight: 700;
    font-size: 12px;
    width: fit-content;
    margin-bottom: 20px;
    letter-spacing: 1px;
}

.greeting-section h1 {
    font-size: 42px;
    font-weight: 800;
    line-height: 1.1;
    margin-bottom: 10px;
    text-shadow: 3px 3px 0px #000; /* Chữ cũng có bóng cứng */
}

.greeting-section p {
    font-size: 18px;
    font-weight: 500;
    opacity: 1;
    color: #f3e8ff;
}

.big-icon {
    font-size: 80px;
    margin-top: 30px;
    filter: drop-shadow(5px 5px 0px rgba(0,0,0,0.3));
    animation: bounce 3s infinite ease-in-out;
}

@keyframes bounce {
    0%, 100% { transform: translateY(0); }
    50% { transform: translateY(-10px); }
}

/* --- Cột Phải (Thông tin) --- */
.right-panel {
    flex: 3;
```

```
    min-width: 320px;
    padding: 40px;
    display: flex;
    flex-direction: column;
    gap: 20px;
}

/* Các khối thông tin con (Info Boxes) */
.info-box {
    background: white;
    border: var(--border-width) solid var(--border-color);
    border-radius: 12px;
    padding: 20px;
    box-shadow: var(--shadow-offset) var(--shadow-offset) 0px var(--border-color);
    transition: all 0.2s;
    display: flex;
    align-items: center;
}

/* Hiệu ứng nhấp nút khi hover */
.info-box:hover {
    transform: translate(2px, 2px);
    box-shadow: 2px 2px 0px var(--border-color);
}

.box-icon {
    width: 50px;
    height: 50px;
    border: 2px solid var(--border-color);
    border-radius: 10px;
    display: flex;
    align-items: center;
    justify-content: center;
    font-size: 22px;
    margin-right: 15px;
    color: black;
```

```
}

.content h3 {
    font-size: 14px;
    font-weight: 700;
    text-transform: uppercase;
    color: #666;
    margin-bottom: 2px;
}

.content p {
    font-size: 22px;
    font-weight: 800;
    color: black;
}

/* Màu riêng cho từng box */
.box-yellow { background-color: var(--color-yellow); }
.box-blue { background-color: var(--color-blue); color: white; }
.box-pink { background-color: var(--color-pink); }

/* Box tiến độ (Full width) */
.progress-wrapper {
    background: white;
    border: var(--border-width) solid var(--border-color);
    border-radius: 12px;
    padding: 20px;
    box-shadow: var(--shadow-offset) var(--shadow-offset) 0px var(--border-color);
}

.progress-header {
    display: flex;
    justify-content: space-between;
    margin-bottom: 10px;
    font-weight: 700;
}
```

```
.progress-track {
    width: 100%;
    height: 24px;
    background: #e5e7eb;
    border: 2px solid var(--border-color);
    border-radius: 50px;
    overflow: hidden;
    position: relative;
}

.progress-fill {
    height: 100%;
    background: var(--color-green);
    border-right: 2px solid var(--border-color); /* Viền phải của
thanh load */
    width: 50%;
    transition: width 1s ease;

    /* Hoạ tiết sọc chéo cho thanh progress */
    background-image: linear-gradient(
        45deg,
        rgba(0,0,0,0.1) 25%,
        transparent 25%,
        transparent 50%,
        rgba(0,0,0,0.1) 50%,
        rgba(0,0,0,0.1) 75%,
        transparent 75%,
        transparent
    );
    background-size: 20px 20px;
}

/* Responsive Mobile */
@media (max-width: 768px) {
    .left-panel { border-right: none; border-bottom: 4px solid var(--border-color); }
```

```
}

</style>
</head>
<body>

<div class="main-card">

    <div class="left-panel" id="panelBg">
        <div>
            <div class="brand-badge">DAILY TRACKER</div>
            <div class="greeting-section">
                <h1 id="greeting">HELLO<br>THERE!</h1>
                <p id="timeText">Chúc một ngày tốt lành</p>
            </div>
        </div>
        <div class="big-icon" id="weatherIcon">
            <i class="fa-solid fa-sun"></i>
        </div>
    </div>

    <div class="right-panel">

        <div class="info-box">
            <div class="box-icon box-yellow">
                <i class="fa-regular fa-clock"></i>
            </div>
            <div class="content">
                <h3>Giờ hiện tại</h3>
                <p id="clock">00:00</p>
            </div>
        </div>

        <div class="info-box">
            <div class="box-icon box-blue">
                <i class="fa-solid fa-calendar-day"></i>
            </div>
        </div>
    </div>

```

```
<div class="content">
    <h3>Hôm nay là</h3>
    <p id="fullDate">...</p>
</div>

<div class="progress-wrapper">
    <div class="progress-header">
        <span>⌚ Còn lại: <span id="daysLeft" style="color: var(--color-purple);">...</span></span>
        <span id="percentText">0%</span>
    </div>
    <div class="progress-track">
        <div class="progress-fill" id="monthProgress"></div>
    </div>
</div>

</div>
</div>

<script>
    function updateUI() {
        const now = new Date();

        // 1. Cập nhật Giờ
        document.getElementById('clock').innerText =
now.toLocaleTimeString('vi-VN', {hour: '2-digit', minute:'2-digit'});

        // 2. Logic Chào hỏi & Màu sắc
        const h = now.getHours();
        let greet = "CHÀO BUỔI SÁNG";
        let sub = "Năng lượng đỉnh cao! ✨";
        let icon = '<i class="fa-solid fa-cloud-sun"></i>';
        let color = "#8b5cf6"; // Tím mặc định

        if (h >= 5 && h < 12) {
            // Sáng giữ nguyên tím
```

```

} else if (h >= 12 && h < 18) {
    greet = "CHÀO BUỔI CHIỀU";
    sub = "Giữ vững phong độ nhé! 🔥";
    icon = '<i class="fa-solid fa-sun"></i>';
    color = "#3b82f6"; // Xanh dương

} else {
    greet = "CHÀO BUỔI TỐI";
    sub = "Thư giãn thôi nào 🌙";
    icon = '<i class="fa-solid fa-moon"></i>';
    color = "#1e293b"; // Xanh đen
}

document.getElementById('greeting').innerHTML = greet.replace("",
", "<br>"); // Xuống dòng cho đẹp
document.getElementById('timeText').innerText = sub;
document.getElementById('weatherIcon').innerHTML = icon;
document.getElementById('panelBg').style.background = color;

// 3. Ngày tháng
const days = ['Chủ Nhật', 'Thứ Hai', 'Thứ Ba', 'Thứ Tư', 'Thứ Năm',
'Thứ Sáu', 'Thứ Bảy'];
const dateStr = `${days[now.getDay()]}  

${now.getDate()}/${now.getMonth()+1}`;
document.getElementById('fullDate').innerText = dateStr;

// 4. Tiến độ tháng
const lastDay = new Date(now.getFullYear(), now.getMonth() + 1,
0).getDate();
const today = now.getDate();
const left = lastDay - today;
const percent = Math.round((today / lastDay) * 100);

document.getElementById('daysLeft').innerText = `${left} ngày`;
document.getElementById('percentText').innerText = `${percent}%`;
document.getElementById('monthProgress').style.width =
`${percent}%`;

```

```

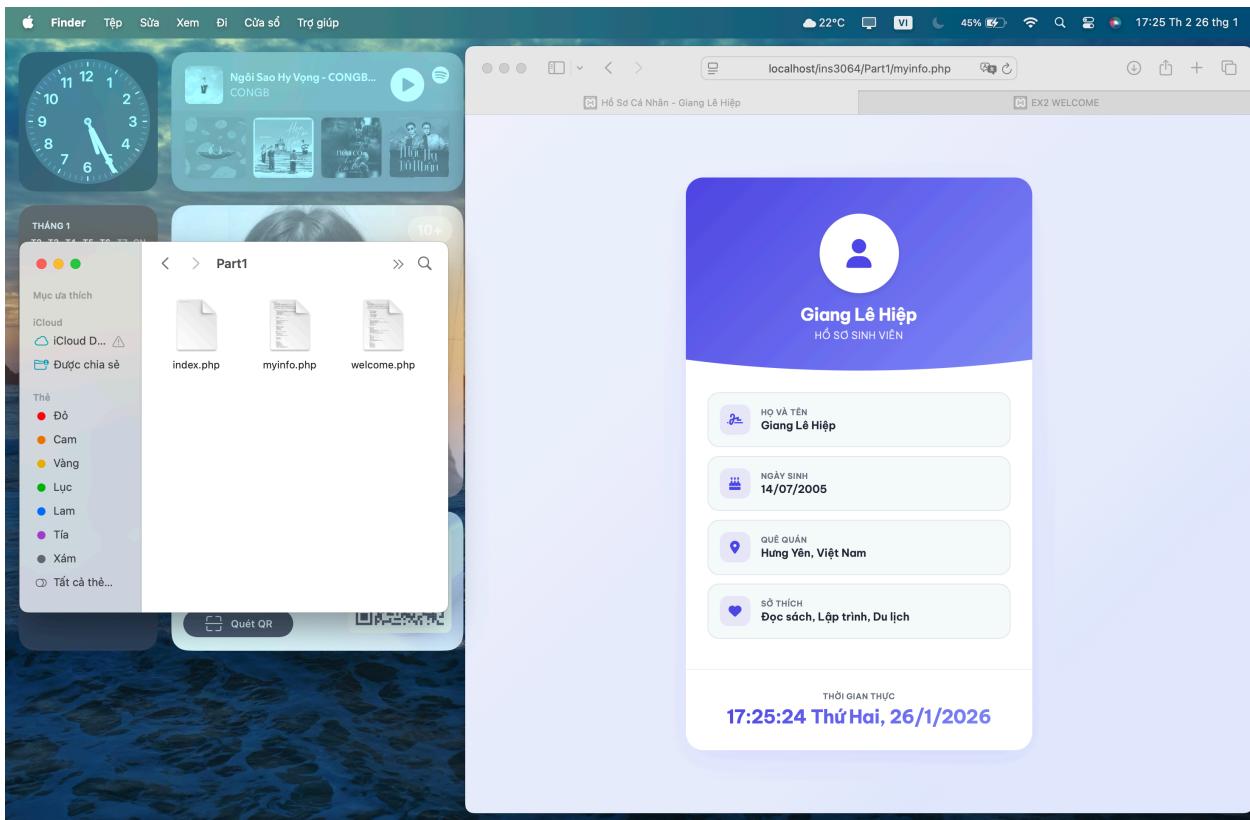
        }

        setInterval(updateUI, 1000);
        updateUI();
    </script>
</body>
</html>

```

PART D: PROOF OF WORK

Evidence Item 1:



Evidence Item 2:

