



Homework 7

01286233 Web Programming

Software Engineering Program,

Department of Computer Engineering,

School of Engineering, KMITL

67011352 Theepakorn Phayonrat

Code

HW7_67011352_Theepakorn.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html;
           charset=windows-1252">
    <title>Unofficial Transcript</title>
    <link rel="stylesheet" type=""
          href="HW7_67011352_Theepakorn.css">
  </head>
  <body>
    <br><br>
    <h1>( Unofficial Transcript )</h1>
    <table>
      <tbody>
        <tr>
          <td></td><td></td>
          <td rowspan="3" class="right_top_pic">
            
          </td>
        </tr>
        <tr>
          <td></td>
          <td class="center_top_col">
            <h2>School of Engineering</h2>
          </td>
        </tr>
        <tr>
          <td class="left_top_col">
            <label for="student_name"
                  style="font-style:
                  italic;">Name</label>
            <input type="text" id="student_name"
                  readonly="">
          </td>
        </tr>
      </tbody>
    </table>
  </body>
</html>
```

```

<table>
  <tbody>
    <tr>
      <td class="left_top_col">
        <label for="date_of_birth"
          ↵ style="font-style: italic;">Date of
          ↵ Birth</label>
        <input type="text" id="date_of_birth"
          ↵ readonly="">
      </td>
      <td class="mid_top_col"></td>
      <td class="right_top_col">
        <label for="student_id" style="font-style:
          ↵ italic;">Student ID</label>
        <input type="text" id="student_id"
          ↵ readonly="">
      </td>
    </tr>
    <tr>
      <td class="left_top_col">
        <label for="date_of_admission"
          ↵ style="font-style: italic;">Date of
          ↵ Admission</label>
        <input type="text" id="date_of_admission"
          ↵ readonly="">
      </td>
      <td class="mid_top_col"></td>
      <td class="right_top_col">
        <label for="date_of_graduation"
          ↵ style="font-style: italic;">Date of
          ↵ Graduation</label>
        <input type="text" id="date_of_graduation"
          ↵ readonly="">
      </td>
    </tr>
    <tr>
      <td class="left_top_col">
        <label for="degree" style="font-style:
          ↵ italic;">Degree</label>
        <input type="text" id="degree" readonly="">
      </td>
    </tr>
  </tbody>
</table>

```

```

                </td>
            </tr>
            <tr>
                <td class="left_top_col">
                    <label for="major" style="font-style:
                        ↳ italic;">Major</label>
                    <input type="text" id="major" readonly="">
                </td>
            </tr>
        </tbody>
    </table>
    <br>
    <table class="content_table">
        <thead>
            <tr><th style="width: 90%;">
                <p>COURSE TITLE</p>
            </th>
            <th style="width: 5%;">
                <p>CREDIT</p>
            </th>
            <th style="width: 5%;">
                <p>GRADE</p>
            </th>
        </tr></thead>
        <tbody id="content_body">
        </tbody>
    </table>
    <br>
    <label for="fileInput">Import Transcript:</label>
    <input type="file" id="fileInput" accept=".json"
        ↳ onchange="handleFileSelect(event)">

    <script src="HW7_67011352_Theepakorn.js"></script>
</body>
</html>
```

HW7_67011352_Theepakorn.css

```
body, html {  
    height: 100%;  
    text-align: center;  
    justify-content: center;  
    margin: auto;  
    max-width: 900px;  
}  
table {  
    text-align: center;  
    justify-content: center;  
}  
th {  
    border: 1px solid black;  
    padding: 8px;  
}  
img {  
    width: 100%;  
    height: auto;  
    display: block;  
    margin: 0 auto;  
}  
.center_top_col{  
    width: 50%;  
    text-align: center;  
}  
.left_top_col {  
    width: 35%;  
    text-align: left;  
}  
.mid_top_col {  
    width: 15%;  
    text-align: left;  
}  
.right_top_col {  
    text-align: left;  
}  
.content_table {  
    border-collapse: collapse;
```

```
    width: 100%;  
}  
.content_table td {  
    border: 1px solid black;  
    padding: 8px;  
    border-bottom: none;  
    border-top: none;  
}  
.content_table tbody {  
    border-bottom: 1px solid black;  
}
```

HW7_67011352_Theepakorn.js

```
const studentName = document.getElementById("student_name");
const studentDOB = document.getElementById("date_of_birth");
const studentID = document.getElementById("student_id");
const studentDOA = document.getElementById("date_of_admission");
const studentDOG = document.getElementById("date_of_graduation");
const studentDeg = document.getElementById("degree");
const studentMaj = document.getElementById("major");
const contentBody = document.getElementById("content_body");

function handleFileSelect(event) {
    const file = event.target.files[0]; // Get the first selected
    ↪ file
    if (file) {
        const reader = new FileReader();

        reader.onload = function(e) {
            const jsonString = e.target.result;
            const jsonData = JSON.parse(jsonString); // Parse the
            ↪ JSON string into a JavaScript object
            render(jsonData);
        };
        reader.onerror = function(e) {
            const error = e.target.error;
            console.error("Error parsing JSON file:", error);
        }
        reader.readAsText(file); // Read the file content as text
    }
}

function render (jsonData) {
    studentName.value = jsonData.student_name;
    studentDOB.value = jsonData.date_of_birth;
    studentID.value = jsonData.student_id;
    studentDOA.value = jsonData.date_of_admission;
    studentDOG.value = jsonData.date_of_graduation;
    studentDeg.value = jsonData.degree;
    studentMaj.value = jsonData.major;
```

```

let accNumerator = 0.0;
let accDenominator = 0.0;
for (const yr in jsonData.credit) {
    const yrHeaderRow = document.createElement("tr");
    const yrHeaderCol0 = document.createElement("td");
    const yrHeaderCol2 = document.createElement("td");
    const yrHeaderCol1 = document.createElement("td");
    yrHeaderCol0.innerText = yr;
    yrHeaderRow.appendChild(yrHeaderCol0);
    yrHeaderRow.appendChild(yrHeaderCol1);
    yrHeaderRow.appendChild(yrHeaderCol2);
    contentBody.appendChild(yrHeaderRow);

    for (const sem in jsonData.credit[yr]) {
        const semRow = document.createElement("tr");
        const semCol0 = document.createElement("td");
        const semCol1 = document.createElement("td");
        const semCol2 = document.createElement("td");
        semCol0.innerText = sem;
        semRow.appendChild(semCol0);
        semRow.appendChild(semCol1);
        semRow.appendChild(semCol2);
        contentBody.appendChild(semRow);

        let semNumerator = 0.0;
        let semDenominator = 0.0;
        for (const subIdx in jsonData.credit[yr][sem]) {
            const subjRow = document.createElement("tr");
            let subjName = "";
            let temp = 0.0;
            for (const subjData in
                jsonData.credit[yr][sem][subIdx]) {
                if (subjData === "name") {
                    subjName = jsonData.credit[yr][sem][subIdx]
                        [subjData];
                } else if (subjData === "subject_id") {
                    subjName = `${jsonData.credit[yr][sem][subIdx]
                        [subjData]} ${subjName}`;
                }
                const subjDataCol =
                    document.createElement("td");
                subjDataCol.style = "text-align: left;";
            }
            subjRow.appendChild(subjDataCol);
            contentBody.appendChild(subjRow);
        }
    }
}

```

```

        subjDataCol.innerText = subjName;
        subjRow.appendChild(subjDataCol);
        contentBody.appendChild(subjDataCol);
    } else {
        if (subjData === "credit") {
            temp += parseFloat(jsonData.credit[yr] [
                ↳ [sem][subIdx][subjData]);
            semDenominator +=
                ↳ parseFloat(jsonData.credit[yr][s] [
                    ↳ em][subIdx][subjData]);
            accDenominator +=
                ↳ parseFloat(jsonData.credit[yr][s] [
                    ↳ em][subIdx][subjData]);
        } else {
            temp *= findGrade(jsonData.credit[yr] [
                ↳ sem][subIdx][subjData]);
            semNumerator += temp;
            accNumerator += temp;
        }
        const subjDataCol =
            ↳ document.createElement("td");
        subjDataCol.innerText = jsonData.credit[yr] [
            ↳ ] [sem][subIdx][subjData];
        subjRow.appendChild(subjDataCol);
        contentBody.appendChild(subjDataCol);
    }
}
contentBody.appendChild(subjRow);
}
const gps = semNumerator/semDenominator;
const gpa = accNumerator/accDenominator;
const gradeSummary = `GPS: ${gps.toFixed(2)} &nbsp;
    ↳ GPA: ${gpa.toFixed(2)}`;
const gradeSummaryRow = document.createElement("tr");
const gradeSummaryCol0 = document.createElement("td");
const gradeSummaryCol1 = document.createElement("td");
const gradeSummaryCol2 = document.createElement("td");
gradeSummaryCol0.innerHTML = gradeSummary;
gradeSummaryRow.appendChild(gradeSummaryCol0);
gradeSummaryRow.appendChild(gradeSummaryCol1);
gradeSummaryRow.appendChild(gradeSummaryCol2);

```

```
        contentBody.appendChild(gradeSummaryRow);
    }
}

function findGrade(gradeLetter) {
    if (gradeLetter === "A") {
        return 4;
    } else if (gradeLetter === "B+") {
        return 3.5;
    } else if (gradeLetter === "B") {
        return 3.0;
    } else if (gradeLetter === "C+") {
        return 2.5;
    } else if (gradeLetter === "C") {
        return 2.0;
    } else if (gradeLetter === "D+") {
        return 1.5;
    } else if (gradeLetter === "D") {
        return 1.0;
    } else {
        return 0.0;
    }
}
```

Input

transcript.json

```
{  
    "student_name": "Mr. Theepakorn Phayonrat",  
    "date_of_birth": "November 12th 2005",  
    "student_id": "67011352",  
    "date_of_admission": "2024",  
    "date_of_graduation": "N/A",  
    "degree": "Bachelor of Engineering",  
    "major": "Software Engineering",  
    "credit": {  
        "Year, 2024-2025" : [  
            "1st Semester" : [  
                {  
                    "name": "Introduction to Calculus",  
                    "subject_id": "01006710",  
                    "credit": "3",  
                    "grade": "B+"  
                },  
                {  
                    "name": "Circuits and Electronics",  
                    "subject_id": "01286111",  
                    "credit": "4",  
                    "grade": "C+"  
                },  
                {  
                    "name": "Elementary System Programming",  
                    "subject_id": "01286120",  
                    "credit": "4",  
                    "grade": "B+"  
                },  
                {  
                    "name": "Computer Programming",  
                    "subject_id": "01286121",  
                    "credit": "4",  
                    "grade": "C+"  
                },  
                {  
                    "name": "Introduction to Logic",  
                    "subject_id": "01286122",  
                    "credit": "3",  
                    "grade": "A-"  
                }  
            ]  
        ]  
    }  
}
```

```

        "subject_id": "96642170",
        "credit": "3",
        "grade": "B+"
    }
],
{
    "name": "Differential Equations",
    "subject_id": "01006717",
    "credit": "3",
    "grade": "C+"
},
{
    "name": "Discrete Mathematics",
    "subject_id": "01006718",
    "credit": "3",
    "grade": "A"
},
{
    "name": "Digital System Fundamentals",
    "subject_id": "01286112",
    "credit": "4",
    "grade": "B"
},
{
    "name": "Object-Oriented Programming",
    "subject_id": "01286131",
    "credit": "4",
    "grade": "D+"
},
{
    "name": "Innovation Unboxed",
    "subject_id": "96642017",
    "credit": "3",
    "grade": "A"
},
{
    "name": "Differential Equations",
    "subject_id": "96644011",
    "credit": "3",
    "grade": "A"
}
]

```

```
    }  
}  
}  
}
```

Output

The screenshot shows a web browser window titled "Unofficial Transcript" with the URL "127.0.0.1:5555/HW7_67011352_Theepakorn.html". The page displays an "Unofficial Transcript" for a student named Mr. Theepakorn Phayorat, born November 12th 2005, with a Student ID of 67011352. The transcript is from the School of Engineering and includes a student icon. It lists courses taken in the 1st Semester (Year 2024-2025) and 2nd Semester, along with their credits and grades. The student's GPS and GPA are also shown.

COURSE TITLE	CREDIT	GRADE
Year, 2024-2025		
1st Semester		
01006710 Introduction to Calculus	3	B+
01286111 Circuits and Electronics	4	C+
01286120 Elementary System Programming	4	B+
01286121 Computer Programming	4	C+
96642170 Introduction to Logic	3	B+
GPS: 3.06 GPA: 3.06		
2nd Semester		
01006717 Differential Equations	3	C+
01006718 Discrete Mathematics	3	A
01286112 Digital System Fundamentals	4	B
01286131 Object-Oriented Programming	4	D+
96642017 Innovation Unboxed	3	A
96644011 Differential Equations	3	A
GPS: 3.08 GPA: 3.07		

Import Transcript: transcript.json

Comparison

Comparison to the real Unofficial Transcript in <https://www.reg.kmitl.ac.th/index/>

(Unofficial Transcript)

Photo

Name Mr. Theepakorn Phayonrat

Date of Birth November 12, 2005

Date of Admission 2024

Degree Bachelor of Engineering

Major Software Engineering (International Program)

Student ID 67011352

Date of Graduation N/A

COURSE TITLE	CREDIT	GRADE	COURSE TITLE	CREDIT	GRADE
<u>Transfer Credit</u>					
96641009 INTERCULTURAL COMMUNICATION SKILLS IN ENGLISH 1	3	S			
96641010 INTERCULTURAL COMMUNICATION SKILLS IN ENGLISH 2	3	S			
<i>GPA : 0</i>					
<u>1st Semester, Year, 2024-2025</u>					
01006710 INTRODUCTION TO CALCULUS	3	B+			
01286111 CIRCUITS AND ELECTRONICS	4	C+			
01286120 ELEMENTARY SYSTEMS PROGRAMMING	4	B+			
01286121 COMPUTER PROGRAMMING	4	C+			
96641007 DIGITAL CITIZEN	3	S			
96642170 INTRODUCTION TO LOGIC	3	B+			
<i>GPS : 3.06 GPA : 3.06</i>					
<u>2nd Semester, Year, 2024-2025</u>					
01006717 DIFFERENTIAL EQUATIONS	3	C+			
01006718 DISCRETE MATHEMATICS	3	A			
01286112 DIGITAL SYSTEM FUNDAMENTALS	4	B			
01286131 OBJECT-ORIENTED PROGRAMMING	4	D+			
96642017 INNOVATION UNBOXED	3	A			
96644011 ENGLISH FOR ACADEMIC PURPOSES	3	A			
<i>GPS : 3.08 GPA : 3.07</i>					
<u>1st Semester, Year, 2025-2026</u>					
01006730 PROBABILITY MODELS AND DATA ANALYSIS	3				
01286213 COMPUTER ARCHITECTURE AND ORGANIZATION	4				
01286222 DATA STRUCTURES AND ALGORITHMS	4				
01286233 WEB PROGRAMMING	4				
<i>GPS : - GPA : 3.07</i>					
Total number of credit earned: 47					
Cumulative GPA: 3.07					
----- Transcript Closed -----					
Checked by _____ (Xx XXXXXXXX XXXXXXXXXXXX)					

Date Issued: September 05, 2025

This document is unofficial transcript.