

# AP Computer Science Principles – Summer Assignment (2025)

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Due Date: Monday, August 18, 2025  
First Summative Grade for 2025–2026

## Overview

Welcome to AP Computer Science Principles! To prepare for the rigor and expectations of this course, you are required to complete a summer assignment designed to build your foundational programming skills and encourage reflective learning.

## Assignment Tasks

### Part 1: Python Mini Projects (60 points)

You are required to complete 3 small Python programs of your choice from the following list or similar difficulty:

1. A calculator for basic operations
2. A number guessing game
3. A simple quiz program
4. A temperature converter
5. A to-do list app (text-based)
6. A basic tip or tax calculator
7. A Rock, Paper, Scissors game
8. A dice roller simulator
9. A BMI calculator
10. An even or odd checker

Each program should:

- Be written in Python
- Be your original work
- Be fully functional and show understanding of variables, input/output, loops, and conditionals
- Include comments and clear code formatting

Important:

- **Record your progress with dates as comments at the top of each code program/file (e.g., # Started: July 5, Finished: July 7)**
- Each file must include your name, grade, and project title.
- You can use these useful [Python tutorials](#) and <https://www.onlinegdb.com/> to write and test your Python programs.

### Part 2: Reflective Essay (40 points)

Write a 1–2 page reflective essay (PDF format) addressing the following:

- What did you learn from each project?
- What challenges did you face, and how did you overcome them?
- How did your skills and confidence improve over the summer?

- Why do you want to take AP CSP, and what do you hope to achieve?
- Include dates to show when you worked on different parts.

## Submission Guidelines

- Submit your Python program files and Reflective Essay PDF via email to: [chadi.alhajjar@student.bbs.edu.kw](mailto:chadi.alhajjar@student.bbs.edu.kw)
- All files must include your full name and grade.
- Submission is due by August 18, 2025 (end of day).

## Rubric (Total: 100 points)

Criteria	Excellent (Full Points)	Good	Needs Work	Points
<b>3 Python Programs (20 pts each)</b>	Complete, clean, and functional with comments and date logs	Functional with minor issues	Missing elements, poor code or formatting	/60
<b>Reflective Essay</b>	Insightful, clear, well-written, addresses all prompts, shows timeline	Adequate, addresses most prompts	Weak, vague, or off-topic	/30
<b>Organization &amp; Submission Guidelines</b>	Correct file formats, name, grade, submitted on time	Minor format issues	Missing details or late submission	/10
<b>Total</b>				/100

## Important Notes

- This assignment will be your first **summative grade** for the 2025–2026 school year.
- **All submitted work are subject to be tested for AI-generated content. Any detected AI-generated work will be discarded. The work must be genuine and authentic student work.**
- Failure to submit this assignment may result in your inability to enroll in AP CSP.
- Late submissions without valid justification will not be accepted.

Looking forward to seeing your creativity and commitment.  
Have a great summer!

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