Project 2 – Procedural Programming

You have covered the main topics of the unit, and you now have the knowledge and skills to work with all the elements of a procedural program: control flow, functions, and procedures, parameters including pass-by-reference, structs and enums, and arrays. In this task, you will bring all this learning together to create a program to meet a set goal.

Learning Goals

To complete this task, you need to demonstrate that you can do the following:

- Integrate everything you have learned in the unit so far to demonstrate you can create a procedural program to achieve a set goal.

Focus

- **Programming concepts:** Focus on how you apply the concepts you have learned all come together within the program you create.
- **Programming process:** Focus on using an iterative process to build your program.
- **Coding:** Focus on applying coding conventions associated with indentation and naming to produce professional quality code.
- **Professional characteristics:** Focus on showing you have developed the attention to detail and persistence needed to succeed in this computing career.

Your Task

For this task you will need to submit the following:

- A PDF document containing:
  - Summaries and reflections.
  - Design notes and plan for your code.
  - Screenshots of your program running on your computer
  - Learning Journey and Resources
- Source code for your chosen program from the Test Your Knowledge activities.

1. Complete Learning Activities

1. Read Chapter 10 Project from Part 2 of the Programmer’s Field Guide.
2. Complete one of the Test Your Knowledge activities from the Procedural Programming Project chapter of the Programmers Field Guide. **Capture** your plans for the design of your solution, your final code, and a screenshot of this working.

> **Tip**
>
> Your plans can include structure charts, flow charts, written notes, and/or pseudocode. As with the other project, you want to demonstrate you can think about your program without having to write the code.

3. Prepare your summary, making sure to cover all learning goals and related concepts. Remember that this is a personal summary that demonstrates your understanding of the concepts.

4. Prepare your reflections by responding to the following:
   - How do you know you have achieved the learning goals?
   - What is the most important thing you learned from this and why?
   - How does the content or skills learned here relate to things you already know?
5. Capture your learning journey and collate your evidence of study and practice.

2. Upload Your Submission & Engage with Feedback

Mark the task as **Ready for Feedback** and upload the required files. Make sure to keep copies of these in case you need to resubmit.

Remember that at the Credit level, you should demonstrate you can be proactive. To get the task Complete, you need to engage with the feedback. Identify one thing you would like to get feedback on and communicate this to your tutor via the feedback dialogue.

> **Tip: Evaluate yourself**
>
> When you submit your work, you can ask your tutor for specific feedback. Try identifying what you have done well and what you have doubts about or would like feedback and clarification on. The feedback process is meant to help you learn and understand your strengths and weaknesses, evaluate yourself and get comfortable at asking for advice.