**Assignment**

**CSA0814 – Python Programming**

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**Title:**

**Markdown to HTML Converter**

**Problem Statement:**

**Design a Python program that converts Markdown documents to HTML format using the markdown module, preserving formatting, headers, lists, and other elements.**

**Code:**

**import markdown**

**import argparse**

**import os**

**def convert\_markdown\_to\_html(input\_file: str, output\_file: str):**

**# Check if the input file exists**

**if not os.path.isfile(input\_file):**

**print(f"Error: The file '{input\_file}' does not exist.")**

**return**

**# Read the Markdown file**

**with open(input\_file, 'r', encoding='utf-8') as file:**

**markdown\_text = file.read()**

**# Convert Markdown to HTML**

**html\_text = markdown.markdown(markdown\_text)**

**# Write the HTML to the output file**

**with open(output\_file, 'w', encoding='utf-8') as file:**

**file.write(html\_text)**

**print(f"Converted '{input\_file}' to '{output\_file}'")**

**if \_\_name\_\_ == '\_\_main\_\_':**

**parser = argparse.ArgumentParser(description='Convert Markdown files to HTML.')**

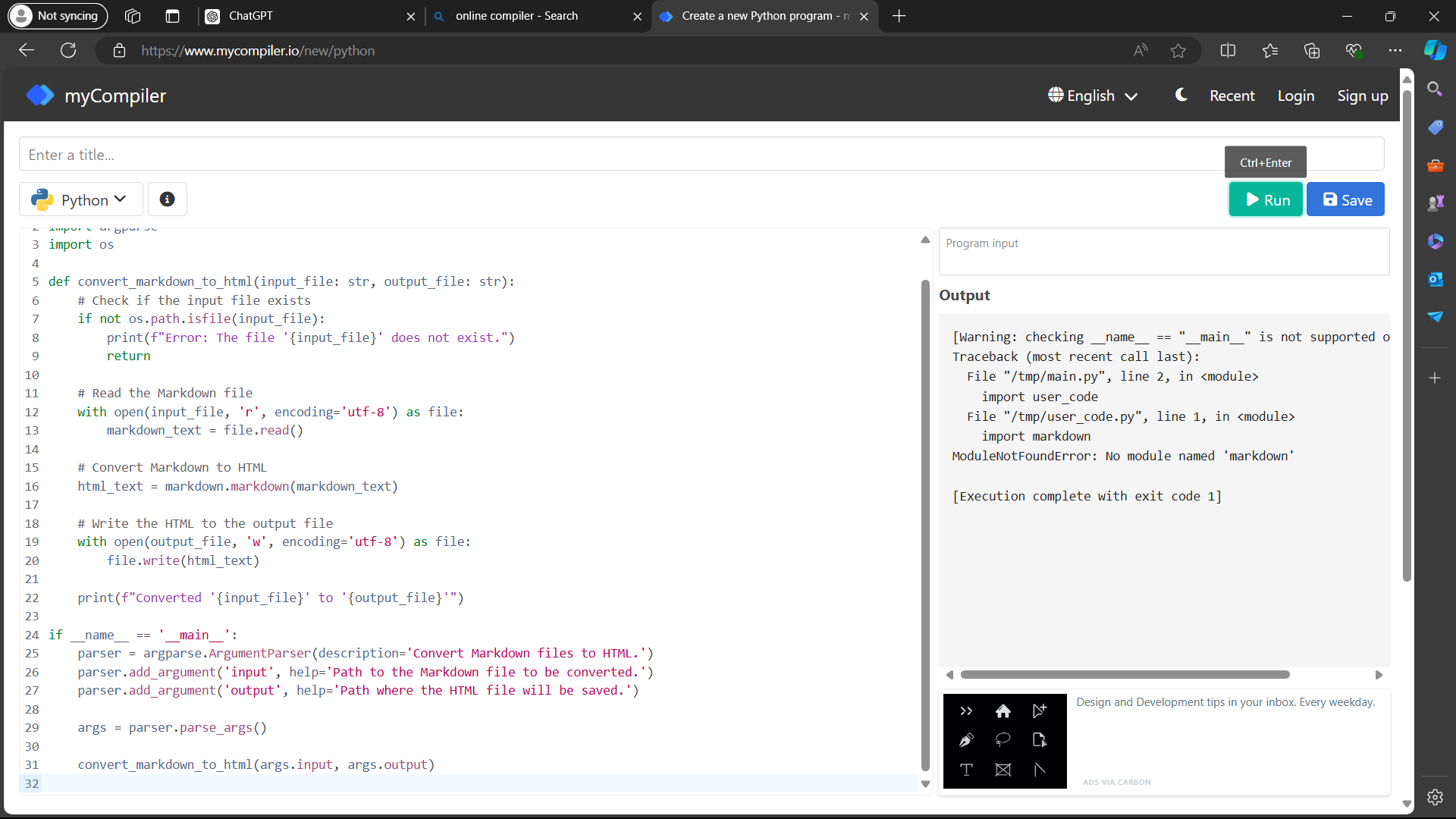
**parser.add\_argument('input', help='Path to the Markdown file to be converted.')**

**parser.add\_argument('output', help='Path where the HTML file will be saved.')**

**args = parser.parse\_args()**

**convert\_markdown\_to\_html(args.input, args.output)**

**Output Screen Shots:**

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**Conclusion:**

**The Python program outlined above effectively converts Markdown documents into HTML using the `markdown` module. By reading the content from a Markdown file, converting it using the `markdown.markdown()` function, and saving the resulting HTML, the program preserves the structure and formatting of headers, lists, and other elements. This approach provides a simple and efficient way to transform Markdown content into web-compatible HTML, making it useful for various applications like static site generation, documentation, or content management systems.**