Project Workflow: Generating Comprehensive Reinforcement Learning Notes

Phase 1: Setup (Completed)

1. **Knowledge Base Population:** The Claude project's Knowledge Base has been populated with the four critical documents:
   - `9_DeepReinforcementLearning.pdf` (Contextual Lecture Notes)
   - `Instructions.txt` (Detailed Core Guidelines)
   - `RL Topic List.txt` (Topic Structure & Guidelines)
   - `rl_cheatsheet.pdf` (Sutton & Barto Notation Reference)
2. **Prompt Preparation:** Six individual prompt files (`prompt_pdf_1.txt` through `prompt_pdf_6.txt`) have been generated, each tailored to guide Claude in creating the LaTeX notes for one specific topic.

Phase 2: LaTeX Code Generation (Using Claude)

1. **Initiate Separate Chats:** Create **six distinct chat sessions** within the Claude project. Name these chats sequentially for clarity:
   - `Code_generation_PDF_1`
   - `Code_generation_PDF_2`
   - `Code_generation_PDF_3`
   - `Code_generation_PDF_4`
   - `Code_generation_PDF_5`
   - `Code_generation_PDF_6`
   - *Using separate chats ensures Claude maintains focus on the specific topic and instructions for each generation task.*
2. **Execute Prompts:**
   - In the chat named `Code_generation_PDF_1` , paste the **entire content** from the file `prompt_pdf_1.txt` . Claude will process this prompt, utilizing the Knowledge Base files and its tools, to generate and save the file `rl_pdf_1.tex` to the specified path (`.../RL_final`).
   - Repeat this process for the remaining topics:
     - In chat `Code_generation_PDF_2` , paste the content of `prompt_pdf_2.txt` to generate `rl_pdf_2.tex` .
     - In chat `Code_generation_PDF_3` , paste the content of `prompt_pdf_3.txt` to generate `rl_pdf_3.tex` .
     - In chat `Code_generation_PDF_4` , paste the content of `prompt_pdf_4.txt` to generate `rl_pdf_4.tex` .
     - In chat `Code_generation_PDF_5` , paste the content of `prompt_pdf_5.txt` to generate `rl_pdf_5.tex` .
     - In chat `Code_generation_PDF_6` , paste the content of `prompt_pdf_6.txt` to generate `rl_pdf_6.tex` .
3. **Verification:** After each prompt execution, confirm that the corresponding `.tex` file has been successfully created in the target directory.

Phase 3: PDF Compilation and Merging

1. **Compile PDFs:** Once all six `.tex` files (`rl_pdf_1.tex` through `rl_pdf_6.tex`) have been generated, use a standard LaTeX compiler (like pdflatex, XeLaTeX,

etc.) on your local machine to compile each `.tex` file into its respective PDF document:
    - `rl_pdf_1.pdf`
    - `rl_pdf_2.pdf`
    - `rl_pdf_3.pdf`
    - `rl_pdf_4.pdf`
    - `rl_pdf_5.pdf`
    - `rl_pdf_6.pdf`
    - *Ensure your LaTeX distribution has the necessary packages (amsmath, tikz, tcolorbox, algorithm, algpseudocode, geometry, etc.) specified or implied in the prompts.*
2. **Merge PDFs:** Use a PDF merging tool (online service, command-line tool like `pdfunite`, or software like Adobe Acrobat) to combine the six individual PDF files (`rl_pdf_1.pdf` through `rl_pdf_6.pdf`) **in sequential order**.
3. **Final Output:** Save the combined document as `RL_fullNotes.pdf`. This single file will contain the complete, structured Reinforcement Learning notes covering all six topics.