**Explanation**

For this assignment, I wanted to carefully reflect on personality traits that I’ve observed in excellent software developers. After reviewing the requirements, I decided to focus on **Problem-Solving**, **Team Collaboration**, and **Adaptability**. These traits stood out to me because they play a huge role in not only individual success but also in building a productive and cohesive team. I also referenced the textbook and the Builder Pattern from OODesign.com for guidance, which helped me make sense of how to structure my thoughts clearly.

* **Problem-Solving** is essential because software development involves facing complex challenges daily. Attributes like *Critical Thinking* and *Logical Reasoning* enable developers to tackle these challenges effectively. Similarly, behaviors like *Debugging* and *Analyzing Requirements* ensure that developers can understand the problem fully and resolve it efficiently.
* **Team Collaboration** is so important because no project succeeds without teamwork. Communication is key, and developers who possess *Communication Skills* and *Empathy* create an environment where everyone feels heard. Behaviors like *Knowledge Sharing* and *Conflict Resolution* keep teams on track and help resolve any disagreements quickly.
* **Adaptability** stood out to me because technology is always changing. Developers need *Curiosity* and *Flexibility* to keep learning new tools and frameworks. Behaviors like *Learning New Technologies* and *Applying Feedback* show their willingness to grow and improve their craft, which I think is super inspiring.

I used Python to create a simple script that organizes and prints these traits, attributes, and behaviors. I wanted it to feel clean and easy to follow, just like the diagram I created. Honestly, coding this made me feel like I was connecting the theoretical and practical aspects of what I’ve been learning in class.

**References**

1. Pressman, R. S., & Maxim, B. R. (2020). *Software engineering: A practitioner’s approach* (9th ed.). McGraw-Hill Education.
2. OODesign.com. (n.d.). Builder pattern. Retrieved from https://www.oodesign.com/builder-pattern.html
3. Smartsheet. (n.d.). Comprehensive guide to the Agile Manifesto. Retrieved from <https://www.smartsheet.com/comprehensive-guide-values-principles-agile-manifesto>