1. Define each of the following terms:
   - Functional requirement
   - Nonfunctional requirement

2. Give the typical “life cycle” for a user story in a Scrum environment.
3. The user stories below fail to meet at least one of the INVEST criteria. Identify one criteria each story does not meet and explain why it does not meet it. Note: I have left off the acceptance criteria for brevity. Do not consider this a violation.

(a) As a developer, I want the app written in Java so that I can learn a new language.

(b) As a bank customer, I want an online banking system so I can conveniently do most of my banking remotely.

(c) As a shopper, I want the web interface to look nice so that I enjoy using it.
4. Each of the requirements below fail to meet at least one of the IEEE’s criteria for a good single software requirement. Identify one criteria each requirement does not meet and explain why it does not meet it.

   (a) The news feed page shall retrieve stories from a MySQL 5.7 database using a PHP script.

   (b) The system shall perform reliably even under high workloads.

5. Write a user story (including acceptance criteria) that might have been created during the development of Google Drive. Size your story so a single developer could implement it in a week (40 hours). Your user story should satisfy the INVEST criteria.
6. Enter a sequence of Git commands which would create the commit structure shown below. You may assume you are in the correct directory and on the master branch, and may simply leave comments where file creation and modification would take place. You may name your second branch anything you wish.

7. Give one advantage and one disadvantage of using interviews for requirements elicitation.