Research some software quality principles

Software quality assurance(SQA) is a methodology that ensures the quality of a software product adheres and complies with a predetermined set of industry standards (organisations may use and implement different SQA based on their software development process). It works in parallel with the software development lifecycle.

1. Defect Prevention – it is better to prevent defects and errors than to try and correct them later.
2. Continuous Improvement – consistent monitoring of the product
3. Stakeholder Involvement – important to have regular collaboration and communication between all the stakeholders to ensure a smooth software development process.
4. Risk-based approach - focus on identifying and addressing the most significant risks in the software product.

To implement SQA effectively:

1. Outline and define quality standards – to be agreed by all stakeholders involved
2. Plan SQA activities through the software development process, e.g. who will do what and at what time points
3. Reviews of requirements, documents and code
4. Perform Testing
5. Monitor and measure
6. Continuous Improvement