# Software Engineering - Report

(10% of module mark)

Due date: 24th January 2022

Write a report on SOLID principles, as applied to Object Oriented Design. SOLID is an acronym that stands for:

* S - Single Responsibility Principle (known as SRP)
* O - Open/Closed Principle
* L - Liskov’s Substitution Principle
* I - Interface Segregation Principle
* D - Dependency Inversion Principle

These principles provide valuable guidelines that help improve the quality and reusability of objected oriented code.

Investigate these principles and write a report which includes for each principle:

* A description of the principle
* The benefits or issues the principle aims to address
* A simple code example to demonstrate the principle (in some cases you may wish to show a case that is non conformant and then show how to change it to become conformant to the principle).

Write the descriptions **in your own words** and use your own examples. The report length should be around 1000 words (including examples), but no more than 1500 words.

Marks will be divided equally for each principle – 20 marks for each principle, split into 10 marks for description plus benefits and 10 marks for the example (with comments/explanation).

Include at the end of your report source references you used (e.g. website links, books etc).