52 iii) Good for extensability, as subclasses can inherit the methods to use aswell

5/ Facto

- 5 i) We want to interact with a set of object types that are related
- 56 ii) Use a class to create instances of an object by deciding a constructor call in the seperate class.
- 57 iii) Open/Closed and extendable, as we can add other objects to it and maybe change the types of objects

58

- 60 i) Like a factory, but is completely independent of the objects it creates and has another layer of classes
- 61 ii) Create multiple factory classes for every set of related objects
- 62 iii) Good for abstraction, as the objects being created are not related to the abstract factory at all

57 Eacad

- 65 i) A class has too many responsibilities
- 66 ii) delegate responsibilities to other classes and use them inside the façade
 - iii) Good for encapsulation, single responsibility

9 Builde

- 70 i) There is a complex interaction of objects that need to be instantiated.
- 1 ii) Use a class to create the objects
- 72 iii) Good for single responsibility and abstraction

74

75 7. For each of the previous design patterns, does your project design have the conditions for implementing the design pattern? Why or why not?

76

- 77 Dependency Injection: We may have a class to store account credentials, and we need to save those to a file. So the class can take in a gateway to call saving to a file
- 78 Factory: There are different types of users, so different information may be needed for the constructor parameters. A factory class could be used to create user accounts
- 79 Abstract Factory: The UI may be different for different types of user, so a abstract factory
- 80 Façade: A class that has to store user info may have to interact with many classes because users can do many things.
- 81 Builder: If as now, there doesn't seem to be a complex task to complete, so there isn't a use for this pattern