Theory Questions

a) Describe briefly the fundamental characteristics of Structural design patterns.
b) What is the difference between an Abstract and Concrete class?
c) Distinguish clearly between class inheritance and interface inheritance.
d) What is the intent of the Adapter design pattern?
e) What is the intent of the Decorator design pattern

Practical Work:

f) Get the code for adapter and decorator in resources up and running and comment it to show you understand it.

g) Using the code provided in resources and the lecture notes this week, write a Java code implementation where output from the **main()** method in the **Client** class should look as follows:

```
Text object show()
design-patterns.com

Http decorated text show()
http://www.design-patterns.com

Ftp decorated text show()
ftp.design-patterns.com

Https decorated text show()
https://www.design-patterns.com
```