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| Academic Year | 2022 | | |
| Semester | Fall | Winter | Summer |
| Course Code - Name | DCF255 – Data Communication Fundamentals | | |
| Instructor | Jithin Sebastian | | |
| Assessment | Assignment 1 |  | |
| Due Date | Sunday, February 20, 2022 | | |

**Student ID**

**Student Name**

**Question 1**

This Assignment is an individual task and worth 5% of the total assignment grade (15%). Answer the following questions and support your answer with diagrams as per your answer and submit it on the link provided on MySeneca under DCF255.

**Question 1**

Many companies today sell services or products. In addition, there are many companies running E-business solutions and various kinds of webserver/database technologies that allow them to conduct business over the internet as well as over other  
networks. Such applications usually represent a client/server scenario in which one or more servers serve multiple clients. What is client/server communication and explain sockets and how sockets are used in client-server communication with a diagram. [7.5Marks]

**Solution**

**Question 2**

John Gage has described the IT environment of today as “The network is the computer”. Explain how Cloud Computing is useful for software engineering. [7.5 Marks]

**Solution**

**Question 3**

Assume that you are accessing a Microsoft website from your home computer (desktop/laptop/tablet).

1. Identify and discuss the method used at your home to access the Internet and then connection with the Microsoft web server. [5 Marks]
2. Sketch/draw a network connection from your device to the Microsoft web server. [5 Marks]

**Solution**