EBU6042: Advanced Network Programming Tutorial 2: Sockets



Q1

Given the following lines from a Java program segment, which of the lines of code could be used to establish an incoming connection with a requesting host?

```
ServerSocket listenSocket = new ServerSocket(7890);
Socket connectionSocket;
```

- A. connectionSocket = ServerSocket.accept();
- B. connectionSocket = listenSocket.accept();
- C. ServerSocket.accept = connectionSocket;
- D. Socket connection = ServerSocket.accept();



Q2

Which Java class encapsulates information about a host's IP address?

- A. InetAddress
- B. Connection
- C. ServerSocket
- D. RemoteAddr



Q3

One of the following successfully creates a client socket connection to a server process listening at *port 1300* on the host *myhost*:



Q4. Programming exercise

Write a *Client-Server socket program* such that:

- The Client should send the numbers 1 to 10 to the Server.
- 2. The **Server** should calculate the square of each number and send it back to the **Client**. The **Client** then displays the returned numbers to the console.



Homework questions ...

Q5. How can a *client* get a line of text from a *server*?

Q6. Describe how a *client* connects to a *server*.

