UEEN3433/3123 TCP/IP NETWORK APPLICATION DEVELOPMENT

PRACTICAL 3

1. Redo the client-server program in Practical 2 Question 1 to use **DatagramSocket**.

   Client Program: Prompts user to enter the *loan amount*, *annual interest rate*, and *number of years of instalment* of a bank loan. The client program sends the values entered by the user to the server and receives the *monthly payment* and *total payment* from the server and displays the information.

   Server Program: Receives the *loan amount*, *annual interest rate*, and *number of years of instalment* from the client and calculates the *monthly payment* and *total payment* and sends the information back to the client. The server program is to use the **Loan** class provided.

2. A remote method **getEpoch** provides the current Epoch time (number of seconds since January 1, 1970 00:00:00). Write the required interface, implementation of the remote method (server program) and the client program that invokes the remote method. Assume that the server program is located at *localhost/EpochTime*. The required Java programs for this are:

   - **EpochTime.java**: The remote interface.
   - **EpochTimeServer.java**: The remote method implementation.
   - **EpochTimeClient.java**: The client application.