Network Programming with Python.

1. The figure below shows demonstrates a sample math client-server interaction where the server performs basic math operations as shown below. Write a multi-threaded math server and a client that supports the following interaction. The client will ask the question in the following format: What is *function_name*(*value*)? The server then reply to the client with the result of the question.

2. Write a dictionary application, users are able to search dictionary and get the meaning of the words. The dictionary should maintain its indexing in order to enhance the performance and scalability. The dictionary should be created by reading the words and their meanings from a file with the following format:

   word1;meaning1;
   word2;meaning2;
   word3;meaning3;

References:
Rajkumar Buyya, S Thamarai Selvi, Xingchen Chu (2009) Object-Oriented Programming with Java: Essentials and Applications. Tata McGraw Hill Education Private Limited. ISBN: 9780070669086