V TEACHING-LEARNING ACTIVITIES

Note: Add a folder and name it into module4\_tla (tla means Teaching Learning Activities) before you commit your answer/document.

A ENGAGE : Misconception , Commit your answer/document on your remote repository that shared to your instructor github account.

Misconception Check Select 2 programming language and compare the advantages and disadvantages of their socket programming.

Ans.

Advantages of Java Sockets:  
Sockets are flexible and sufficient. Efficient socket based programming can be easily implemented for general communications.  
  
Sockets cause low network traffic. Unlike HTML forms and CGI scripts that generate and transfer whole web pages for each new request, Java applets can send only necessary updated information.  
  
Disadvantages of Java Sockets:  
Security restrictions are sometimes overbearing because a Java applet running in a Web browser is only able to establish connections to the machine where it came from, and to nowhere else on the network  
  
Despite all of the useful and helpful Java features, Socket based communications allows only to send packets of raw data between applications. Both the client-side and server-side have to provide mechanisms to make the data useful in any way.  
  
Since the data formats and protocols remain application specific, the re-use of socket based implementations is limited.

B EXPLORE : API Specifications list 1. Give all of socket and serversocket methods with their descriptions.

1) public InputStream getInputStream() returns the InputStream attached with this socket.

2) public OutputStream getOutputStream() returns the OutputStream attached with this socket.

3) public synchronized void close() closes this socket

4) public Socket accept() returns the socket and establish a connection between server and client.

5) public synchronized void close() closes the server socket.