

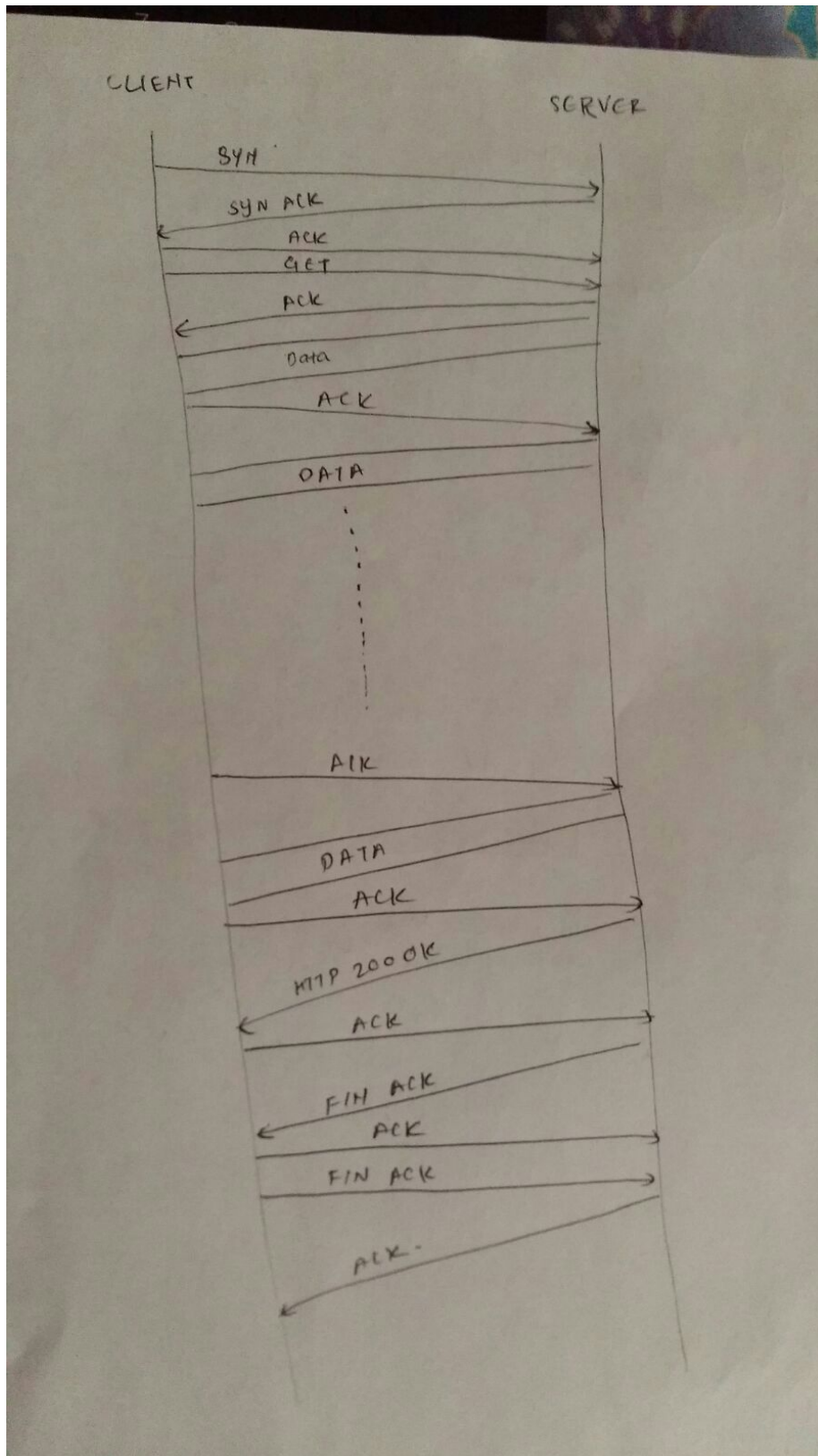
Homework 2

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PART A:

1.



The Sequence Number , Acknowledgement Number and Window Size are captured as part of program and saved in “logA.txt” file.

2. The first three communication post the three way handshake communication is as below

GET Request : Ack Number : 290218380
(Client) Seq Number: 951057940
Window Size: 9660

the above request says that the client is sending packets and the latest packet it has sent is of seq number 951057940 , and the client is expecting the packet 290218380. The packet it can receive is not greater than 9660.

ACK and Data: Ackn Number: 951058419
(Server) Seq Number: 290218380
Window Size: 6432

the above packet information says that the server has received bytes upto 951058418 and is expecting 951058419th byte from client. Also it is sending the packet requested by client on seq number 290218380 which the client had requested. Also the server now advertises its window size of 6432 which the client accepts to in the subsequent packet transfer.

ACK: Ackn Number: 290219760
(Client) Seq Number: 951058419
Window Size: 6432

the above packet acknowledges the packets till 290219759 and expecting packet 290219760 and it is sending the packet number 951058419 which the server had requested.

PART B:

1. Sample A file uses HTTP parallelization since there are 6 connections which are set-up from source IP to destination IP via six source ports. The communication is then carried out in parallel with socket individual source port to HTTP server.
Sample B uses HTTP pipelining since in the packet flow we can observe that the acknowledgement is received in gaps. In between the gaps the data packets are transferred between Source port and Destination Port.
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2. The answer to the measurements is captured in logBSampleA.txt and logBSampleB.txt.