**Makefile**:

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| Divyas-MacBook-Pro:207\_HW1 Divya$ make  gcc -g -o ex1\_server ex1\_server.c  gcc -g -o ex1\_client ex1\_client.c  gcc -g -o ex2\_server ex2\_server.c  gcc -g -o ex2\_client ex2\_client.c  Divyas-MacBook-Pro:207\_HW1 Divya$ |

**TCP:**

Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex1\_server

Listening

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| --- |
| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex1\_client 127.0.0.1 8888 list  Item Number Title Quantity  1001 Star Wars 100  1002 Harry Potter 80  1003 Inside Out 50  Divyas-MacBook-Pro:207\_HW1 Divya$  Server:  Connection accepted from Client IP : 127.0.0.1 Client Port : 55699  Listening on Server IP : 127.0.0.1 Server Port : 8888  Request Type : LIST |

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| --- |
| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex1\_client 127.0.0.1 8888 "order 1003 1"  OK  Server :  Connection accepted from Client IP : 127.0.0.1 Client Port : 55707  Listening on Server IP : 127.0.0.1 Server Port : 8888  Request Type : ORDER  Requested itemnumber: 1003 and quantity: 1 |

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| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex1\_client 127.0.0.1 8888 list  Item Number Title Quantity  1001 Star Wars 100  1002 Harry Potter 80  1003 Inside Out 49  Server:  Connection accepted from Client IP : 127.0.0.1 Client Port : 55719  Listening on Server IP : 127.0.0.1 Server Port : 8888  Request Type : LIST |

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| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex1\_client 127.0.0.1 8888 "order 1003 50"  Sorry! not enough stock  Server:  Connection accepted from Client IP : 127.0.0.1 Client Port : 55726  Listening on Server IP : 127.0.0.1 Server Port : 8888  Request Type : ORDER  Requested itemnumber: 1003 and quantity: 50 |

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| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex1\_client 127.0.0.1 8888 "order 1004 1"  Requested item is not present in our inventory  Server:  Connection accepted from Client IP : 127.0.0.1 Client Port : 55732  Listening on Server IP : 127.0.0.1 Server Port : 8888  Request Type : ORDER  Requested itemnumber: 1004 and quantity: 1 |

**UDP**:

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| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex2\_client 127.0.0.1 8888 list  Sending data to server ,host:127.0.0.1 port:8888  Item Number Title Quantity  1001 Star Wars 100  1002 Harry Potter 80  1003 Inside Out 50  Server :  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex2\_server  Data received from Client IP : 127.0.0.1 Client Port : 52043  Listening on Server IP : 127.0.0.1 Server port : 8888  Request Type : LIST |

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| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex2\_client 127.0.0.1 8888 "order 1003 1"  Sending data to server ,host:127.0.0.1 port:8888  OK  Server:  Data received from Client IP : 127.0.0.1 Client Port : 63982  Listening on Server IP : 127.0.0.1 Server port : 8888  Request Type : ORDER  Requested itemnumber: 1003 and quantity: 1 |

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| --- |
| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex2\_client 127.0.0.1 8888 list  Sending data to server ,host:127.0.0.1 port:8888  Item Number Title Quantity  1001 Star Wars 100  1002 Harry Potter 80  1003 Inside Out 49  Server:  Data received from Client IP : 127.0.0.1 Client Port : 51102  Listening on Server IP : 127.0.0.1 Server port : 8888  Request Type : LIST |

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| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex2\_client 127.0.0.1 8888 "order 1003 50"  Sending data to server ,host:127.0.0.1 port:8888  Sorry! not enough stock  Server:  Data received from Client IP : 127.0.0.1 Client Port : 57249  Listening on Server IP : 127.0.0.1 Server port : 8888  Request Type : ORDER  Requested itemnumber: 1003 and quantity: 50 |

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| Client:  Divyas-MacBook-Pro:207\_HW1 Divya$ ./ex2\_client 127.0.0.1 8888 "order 1004 1"  Sending data to server ,host:127.0.0.1 port:8888  Requested item is not present in our inventory  Server:  Data received from Client IP : 127.0.0.1 Client Port : 55825  Listening on Server IP : 127.0.0.1 Server port : 8888  Request Type : ORDER  Requested itemnumber: 1004 and quantity: 1 |