|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Registration Number** | **Surname** | **Forename** | **Contribution** |
| **Student 1** | 000839875 | Turon | Kacper | 25% |
| **Student 2** | 000871936 | Young | Jack | 25% |
| **Student 3** | 000878481 | Kallon | Kevin | 25% |
| **Student 4** | 000874782 | Basharat | Usman | 25% |

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| **User ID (Selected by the Tutor):** *000839875* **α: 75 β: 8 γ: 9 δ:** **3** | | | | |
|  | **Subnet 1** | **Subnet 2** | **Subnet 3** | **Subnet 4** |
| **Number of Hosts** | 75 | 8 | 9 | 3 |
| **Network Address** | 192.158.50.0 | 192.158.50.72 | 192.158.50.77 | 192.158.50.81 |
| **Router Interface Address** | 192.158.50.1 | 192.158.50.74 | 192.158.50.79 | 192.158.0.83 |
| **First Host Address** | 192.158.50.2 | 192.158.50.76 | 192.158.50.80 | 192.158.50.84 |
| **Last Host Address** | 192.158.50.74 | 192.158.50.77 | 192.158.50.81 | 192.158.50.85 |
| **Broadcast Address** | 192.158.50.75 | 192.158.50.78 | 192.158.50.82 | 192.158.50.86 |
| **Bit Mask (Binary)** | 11111111. 11111111. 11111111.00000000 | 11111111. 11111111. 11111111.11100000 | 11111111. 11111111. 11111111.11110000 | 11111111. 11111111. 11111111.11110000 |
| **Bit Mask (Doted Decimal)** | 255.255.255.128 | 255.255.255.240 | 255.255.255.240 | 255.255.255.248 |

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| **Connectivity Test** | | | | |  |  |  |  |
|  | **Gateway** | **Host A** | **Host B** | **Host C** |  | **Task** | **Mark** | **Grade** |
| **Gateway** | N/A |  |  |  | Subnet Calculation | 50% |  |
| **Host A** |  |  |  |  | Connectivity Test | 20% |  |
| **Host B** |  |  |  |  | Fault Detection | 30% |  |
| **Host C** |  |  |  |  |  | Total |  |

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| **Fault** | **Solution** |
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| **User ID (Selected by the Tutor):** *000839875* **α: 75 β: 8 γ: 9 δ:** **3** | | | | |
|  | **Subnet 1** | **Subnet 2** | **Subnet 3** | **Subnet 4** |
| **Number of Hosts** | 75 | 8 | 9 | 3 |
| **Network Address** | 192.158.50.0 | 192.158.50.72 | 192.158.50.77 | 192.158.50.81 |
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| **First Host Address** | 192.158.50.2 | 192.158.50.76 | 192.158.50.80 | 192.158.50.84 |
| **Last Host Address** | 192.158.50.74 | 192.158.50.77 | 192.158.50.81 | 192.158.50.85 |
| **Broadcast Address** | 192.158.50.75 | 192.158.50.78 | 192.158.50.82 | 192.158.50.86 |
| **Bit Mask (Binary)** | 11111111. 11111111. 11111111.10000000 | 11111111. 11111111. 11111111.11110000 | 11111111. 11111111. 11111111.11110000 | 11111111. 11111111. 11111111.11111000 |
| **Bit Mask (Doted Decimal)** | 255.255.255.128 | 255.255.255.240 | 255.255.255.240 | 255.255.255.248 |

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| From | To | IP Address | Ping Results |
| Host A | Gateway | 192.158.50.6 | FAILED |
| Host A | Host B | 192.158.50.3 | WORKED |
| Host A | Host C | 192.158.50.74 | WORKED |
| Host B | Gateway | 192.158.50.4 | FAILED |
| Host B | Host A | 192.158.50.74 | WORKED |
| Host B | Host C | 192.158.50.2 | WORKED |
| Host C | Gateway | 192.158.50.5 | FAILED |
| Host C | Host A | 192.158.50.74 | WORKED |
| Host C | Host B | 192.158.50.3 | WORKED |

Group Reflection

Task 1 was to complete the table that was given to us. We were given one of our student IDs and we had to use the instructions set to complete the subnets for each one. Once this was complete, we went on to completing the rest of the table. We did all of them except the last one which we obviously found was correct at the end. We moved on to the Task 2 which was to ping one end to another. We found it that Host A, B and C were all pinging from each other. However, the gateway was not pinging. We did not have enough time for Task 3.

During this task, we spent most of our time in the first lesson of this task making cables. We only successfully did 1. However, we all knew that this was not enough. Therefore, I came back and got us another three to make sure that we are prepared for the laboratory today. However, this lesson we constructed the physical aspect of the network very well. However, we had to test the cables to make sure that what we are doing is correct. We tested each one and they all worked. However, once we completed Task 1, after a very long time, we had very short amount of time to complete the third one. However, Task 2 was straight away. Task 2 was complete near enough by the end. Therefore, we did not have enough time for the last task.

I felt that this task was very hard to complete. As each instruction was not clear enough to make progress for each task. It never gave us specific instruction of what we had to do. It was very misleading. On the other hand, we did not give up and we did it according to our thoughts. We felt that these tasks needed more time in order for us to complete all three tasks and do it. We all felt that it was rushed.