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| C:\Users\Nabila Elshanum\Downloads\kad.jpg | **Tugas 1**  **Pemrograman Jaringan (CSH4V3)**  **------------------------------**  **Semester Genap 2018 - 2019**  **Dosen: Aulia Arif Wardana, S.Kom., M.T. (UIW)** | | |
| ***Berdo’alah sebelum mengerjakan. Dilarang berbuat curang.***  ***Tugas ini untuk mengukur kemampuan anda, jadi kerjakan dengan sepenuh hati.***  ***Selamat belajar, semoga sukses !*** | | | |
| **Nama Mahasiswa:**  **Moch Ichsan rahmat Sanjaya**  **……………………………..................................................** | | **NIM:**  **1301160524**  **…………………….............................** | **Nilai:**  **……………………** |

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| **Siapkan tools berikut sebelum mengerjakan:** |
| 1. Go Programming Language (<https://golang.org/dl/>). 2. Visual Studio Code (<https://code.visualstudio.com/>) atau LiteIDE (<https://github.com/visualfc/liteide>). 3. Disarankan untuk menggunakan linux dengan distro fedora (<https://getfedora.org/id/workstation/>). 4. Buatlah git repository pada <https://github.com/> kemudian push semua kode dan hasil laporan anda ke dalam repository github yang sudah anda buat. Kumpulkan link repository github tersebut sebagai tanda bahwa anda mengerjakan tugas modul ini. |

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| **Soal No 1** |
| http://telescript.denayer.wenk.be/~hcr/cn/idoceo/images/tcpfsm.gif  Jelaskan maksud diagram finite state machine dari TCP Connection diatas! |
| Jawaban:  From start point, it was close at the start then begin to listen at active state to send and receive syn, then after that happens the connection will be established, if it received FIN or send ACK then it will be passively closed and return to the closed state at the start again. And if it closed or send FIN then it will do another processes until the closed state again. |

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| **Soal No 2 (for dan if/else)** |
| Jalankan masing-masing program diatas, apakah outputnya (berikan printscreen) dan jelaskan cara kerjanya! |
| Jawaban:  so, basically the first one used loops to print numbers shown and by the time it hit the max number stated it will print loop and go again    The second one use to print things out. |
| **Soal No 3 (array dan function)** |
| Jalankan masing-masing program diatas, apakah outputnya (berikan printscreen) dan jelaskan cara kerjanya! |
| Jawaban:  It use the array to show the numbers  And to get the numbers that was inserted and the total of these array    This one used the array to add another numbers on the array |
| **Soal No 4 (struct dan method)** |
| Jalankan masing-masing program diatas, apakah outputnya (berikan printscreen) dan jelaskan cara kerjanya! |
| Jawaban:  This one is to print the person with their age, but some casualties done here like sean is 50 or 51 yr/old? And how come fred is 0 aged    This one over here is to count the perimeter or are of an rectangle |
| **Soal No 5 (multiple return value dan command line)** |
| Jalankan masing-masing program diatas, apakah outputnya (berikan printscreen) dan jelaskan cara kerjanya! |
| Jawaban:  So this code is basically to print the included numbers such as 3 and 7 and they were assigned as a and b and c is assigned as the last outputted one and because 7 is the last one so c will also assigned as 7    And the one over here is to printed out the word etc. that has been assigned as well such as, because 42 is a number then it’s a numb etc. |
| **Soal No 6 (simple web application)** |
| Sebelum menjalankan program diatas, gantilah port 80 ke port 8000. Buka browser kemudian ketikkan alamat localhost:8000.  Jalankan program diatas, apakah outputnya (berikan printscreen) dan jelaskan cara kerjanya! |
| Jawaban:    The code above is to make an localhost that has been inputed code from above. |
| **Soal No 7 (create config file)** |
| Buatlah sebuah config file untuk aplikasi web application pada soal no 6 dengan menggunakan library berikut: <https://github.com/spf13/viper> !  Jelaskan susunan directory dari program serta bagaimana cara untuk melakukan konfigurasi file config yang telah anda buat!  Printscreen hasil dan penjelasan kode untuk membuat file config disini! |
| Jawaban: |