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| **INTRODUCTION TO PROGRAMMING IN C (IS-FEE-10061S)**  **WEEK 13** | | | |
| **First Name** | **Last Name** | **Date** | **Points** |
|  |  | **28.05.2024** |  |

**Comments:**

* complete the data in the table above
* paste the program codes in the designed places
* send the file by the end of the day on which the next class will take place

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| **Program no. 1** |
| For the text file **input1.txt**, do the following:  a) display the file content on the screen using character functions;  b) display the file content on the screen using string functions;  c) calculate and display the arithmetic mean of the numbers in the file. |
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| **Teacher's comments:** |
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| **Program no. 2** |
| Write a program that writes the following business card to the text file **vcard.txt**.  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **\* John Smiths \***  **\* e-mail: jsmiths@gmail.com \***  **\* mobile: 123-456-789 \***  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |
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| **Teacher's comments:** |
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| **Program no. 3** |
| In the text file **input2.txt**, there are two columns of real numbers representing the results of measurements of instantaneous voltage and instantaneous current. Write a program that reads the contents of the **input2.txt** file and creates an **output2.txt** file containing three columns of numbers: instantaneous voltage values, instantaneous current values, and instantaneous power values. |
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| **Teacher's comments:** |
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| **Program no. 4** |
| The **input3.txt** text file contains 3 columns of data separated by commas. The data represents **gender** (M - male, W - female), **weight** in kilograms, and **height** in meters. Perform the following operations:  a) calculate and display the number of men and the number of women in the file;  b) calculate and display the average weight of men and the average weight of women in the file;  c) calculate and display the average height of men and the average height of women in the file. |
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| **Teacher's comments:** |
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