

## PROGRAM NUKLID

This C++ program is useful for conversion of nuclide data, taken from one library, from a csv to a html file. Every csv file row has one nuclide with all respective data we have gathered from a library. The program creates a small html file for each nuclide where all of its data are included. At the beginning of the code the input csv file is named. After the file is opened, the program reads each row separately. First of all a table of characters is defined out of which the name of the output html will be constructed. An additional one is defined with the purpose of storing the code of the single nuclide. The following conditional loop checks which type of code we are dealing with, because some nuclides have an additional character or a character and number after their 7-digits code. The loop then extracts every character of the code and stores it into the previously defined code table. Further the »while« and »if« loop with parameters 'a' and 'b' read the first character after the second bar in each row of the csv. If a 'N' is found it means that »New evaluation« is written in the data and the program will include a sign 'n' in the name of the output html. If the 'N' is not encountered a '\_' sign will take its place. In the following lines the final shaping of the file name takes place. The file name must end with the name of the library we are dealing with. After the output file name is set for nuclides with regular code and long code, it begins to write into it. First it defines the header. The next loop counts all the vertical bars in the csv row, each of them will later represent the limit between the single columns of the table within the html. Then it writes down the first row of the table and names the single columns. The last loop reads the entire line in csv character by character and fills the columns with proper data. At the end the program closes the html file.