**python3 student\_no.py**  # takes inputs from the terminal and displays results (if any).

**python3 student\_no.py<input1.txt** # it takes inputs from input1.txt and displays the result in the terminal.

**python3 student\_no.py<input1.txt>myoutput.txt** # it takes the inputs from input1.txt and creates the myoutput.txt document and writes the result here.

**diff output1.txt myoutput.txt** # compares the document output1.txt with the document myoutput.txt.

**diff --ignore-all-space output1.txt myoutput.txt** # compares the document output1.txt with the document myoutput.txt without ignoring the spaces.

**QUESTION 1**

If the sum of the powers of the digits of a number is equal to the number itself, then this number is called a Disarium number. Write the Python code that takes a positive integer from the user and finds whether this number is a Disarium number.

Note: Let's assume that the user always enters a 4-digit integer value.

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| **Example**  1306 sayisi  1\*\*1 + 3\*\*2 + 0\*\*3 + 6\*\*4 = 1306  1306=1306  disarium | **Example**  1000 sayisi  1\*\*1 + 0\*\*2 + 0\*\*3 + 0\*\*4 = 1  1!=1000 (is not equal)  notdisarium |

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| **Example 1**  1306  **1306**  **disarium** | **Example 2**  1000  **1**  **notdisarium** |