**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**

Write a Python program that finds the factorial of an integer given by the user.

**Note:** Using loop is mandatory.

|  |  |
| --- | --- |
| **Example**  5  5 x 4 x 3 x 2 x 1 = 120 | **Example**  7  7 x 6 x 5 x 4 x 3 x 2 x 1 = 5040 |

|  |  |
| --- | --- |
| **Example 1**  **120** | **Example 2**  **5040** |