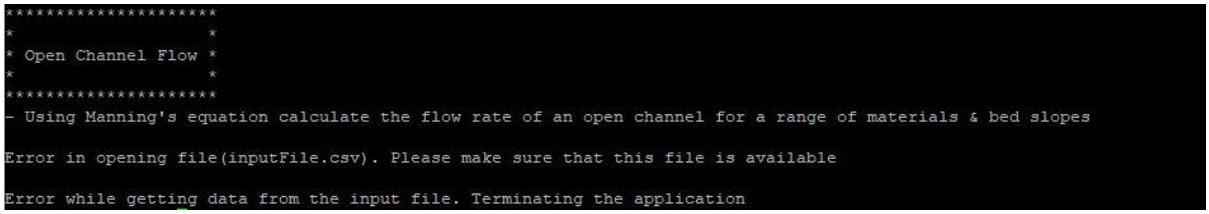
Comply document

Given below are the results of the test cases:

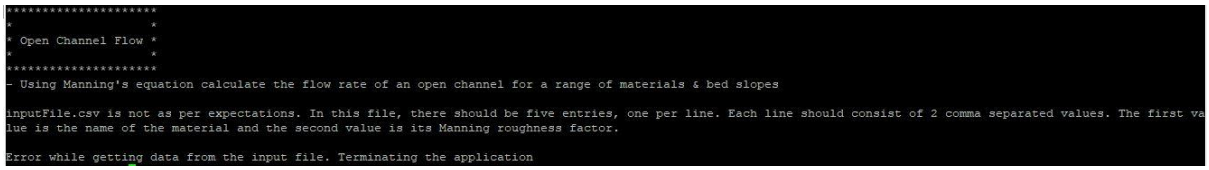
Case 1: File name is incorrectly entered or the input file does not exist.

Observations in this test case are depicted below:



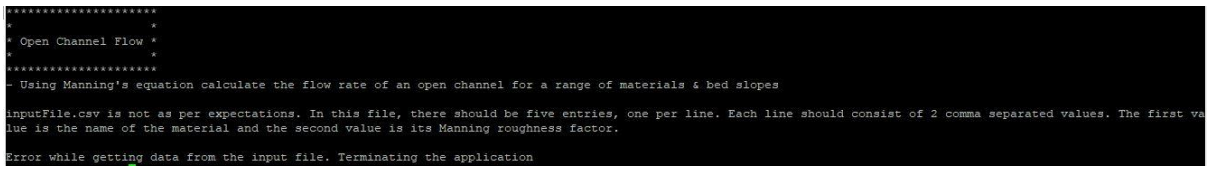
Case 2: The input file doesn't contain 5 lines.

Observations in this test case are depicted below:



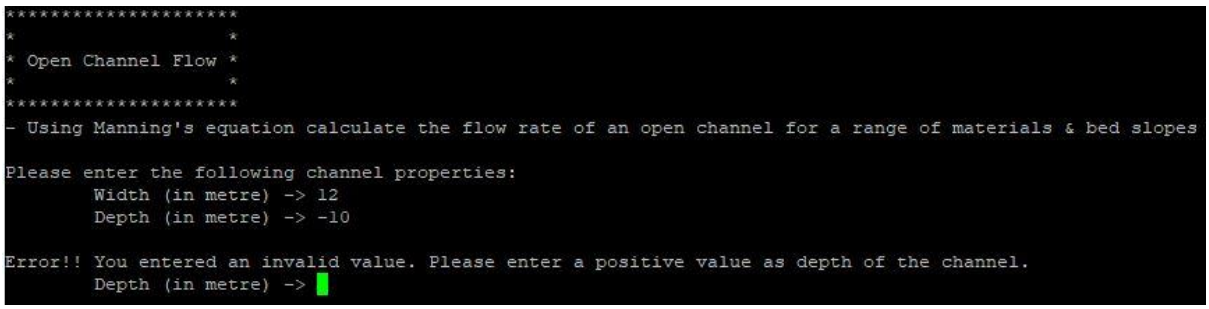
Case 3: The input file is not in the proper format.

Observations in this test case are depicted below:



Case 4: Any of the values input by the user is negative.

Observations in this test case are depicted below:



Verification of result

The flow rate calculated by the app was compared with the values calculated via hand(in testing.pdf).

Following inputs were given to the app:

Width = 10m, Depth = 12m, Rise = 1 and Run = 100

Contents of inputFile.csv:

Asphalt,0.016

Cast Iron,0.012

Concrete,0.011

Gravel,0.023

Natural channels,0.060

Given below is the matrix calculated by the app. The 2 values highlighted using the red box matched with our hand calculations.

	Slope				
Material	0.01	0.06	0.11	0.16	0.21
Asphalt	1745.91	4276.59	5790.53	6983.64	8000.76
Cast Iron	2327.88	5702.12	7720.70	9311.52	10667.69
Concrete	2539.51	6220.49	8422.59	10158.02	11637.47
Gravel	1214.55	2975.02	4028.19	4858.18	5565.75
Natural channels	465.58	1140.42	1544.14	1862.30	2133.54