# Results and Crash Test-Consistency Report

This document contains the inputs, outputs and the explanations of four test cases in the program. The following picture is the sample of input files used as test cases in the program.

```
| Proceedings |
```

Figure 1: Sample Input

### Test Case 1:

Input: InputFile2.csv

Output: The program outputs a set of the top most optimal assignments based on least total penalty

Explanation: Input met all the constraints and the program prints several bipartite perfect matches allocating professors to courses

```
PS C:\USers\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year \times\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Disco\Project\Dis
```

Figure 2: Screenshot of the terminal when program is run with the given csv file as input

#### Test Case 2:

Input: InputFile3.csv

Output:

PS C:\Users\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year 2\Disco Project\Disco-Project\ & 'C:\Users\The Fiery dragon\AppBata\Local\Programs\
Python\Python39\python.exe' 'c:\Users\The Fiery dragon\\code\extensions\ms-python.python.python1282.32e.\@pythonFiles\Jib\python\debugpy\landputar\...'..\
debugpy\landputar\' '-debugpy\landputar\' '-'c:\Users\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year 2\Disco Project\Disco-Project\That\Disco-Project\That\Disco-Project\That\Disco-Project\That\Disco-Project\That\Disco-Project\Disco-Project\That\Disco-Project\Disco-Project\That\Disco-Project\Disco-Pr

Figure 3: Test Case 2 Output

Explanation: Crash Test-Number of professors is not sufficient to assign someone to all CDC slots. As a result the above message is printed in output and the program crashes.

#### Test Case 3:

Input:InputFile5.csv

Output:

Explanation: Crash Test-When there are more number of professors to be assigned than the total courses offered (CDCs+Electives) for a given semester.

PS C:\Users\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year \\ \text{VDisco-Project\} & \text{C:\Users\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year \\ \text{C:\Users\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year \\ \text{C:\Users\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year \\ \text{C:\Users\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year \\ \text{C:\Users\The Fiery dragon\OneDrive\Documents\} & \text{C:\Users\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year \\ \text{C:\Users\The Fiery dragon\OneDrive\Documents\} & \text{C:\Users\The

Figure 4: Test Case 3 Output

## Test Case 4:

Input:InputFile4.csv

Output:

PS c:\Users\The Fiery dragon\OneDrive\Documents\Sid\BITS\Year \Disco Project\Disco-Project> & "c:\Users\The Fiery dragon\AppData\Local\Prog rams\Python\Pyth

Figure 5: Test Case 4 Output

Explanation: Crash Test-After assigning the CDCs, the number of professor slots is odd, then a teacher is assigned half of an elective course which is not possible, as a result the above message is seen and program crashes.