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| **ASSEMBLY LINE SCHEDULING** |
| **ASSIGNMENT#01** |
| **ADVANCED PROGRAMMING BSCS-2B** |

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| **ALISHPA AHMED REG#00958**  3/17/2015 |

**EXPLANATION**

* The algorithm I simulated is of assembly line scheduling in C language .
* There are two main files tester.cpp and drive.h
* Tester.cpp is the tester application containing the main () of the complete code to test the algorithm’s actual performance.
* Driver.h is the actual simulation of the logic of the assembly line scheduling algorithm.
* The code n, i , fe used for numer ofnodes, variable for iteration in the loops, total cost respectively.
* Some other arrays I used are as under
* e[2 ] = array of size 2 represting entry values
* a[2][100] = a 2-D array representing the time of each station 2=assembly line ,100 for the station number on a specific asembly line
* t[2][9] transition time between assembly lines from a specific station
* x[2] = exit values
* f1[100], f2[100] =time on each station of car
* the algorithm actually calculates the time on each station for the car to reach there from the start and stores the shortest time path in an array of fe in the fast\_way function.
* Prints the oprtimal path in the print\_stations() function
* In the tester app the input is taken from the user and the driver.h is added to the file to implemnt the algorithm