

1. **Pipes:** You are given the database which you are familiar with last lab session. Write a program to read any two courses (file names) from the database (through keyboard) and place the contents of these files in two pipes (file1_pipe, file2_pipe).

Your task is to print (in three different files) stream-wise students who have credited the specified courses which are in two pipes. That is all B Tech students who have credited in the two courses, all M Tech students who have credited and all PhD students who have credited these two courses (To be precise, you have to find stream-wise intersection of the given two files).

You can get to know department of a student from the roll number as per the following mapping:

- (a) First two digits of roll number represent year.
- (b) Second two digits represent stream (B Tech/M Tech/PhD).
- (c) Third two digits represent department code.
- (d) Remaining digits represent the roll number of the student.

Code	01	02	03	04	05
Name	CSE	ECE	ME	CE	DD
Code	06	07	08	21	22
Name	BT	CL	EEE	EP	CT
Code	23	41			
Name	MC	HS			

Note: 1. You are not allow to use any additional data structures in the process of computation.

Note: 2. You should implement this program either in **C** or **C++** language only.

Note: 3. This assignment needs the concepts of pipes. Sections 44.1 and 44.2 shared with you will help a lot. These two sections are shared on Thursday, 08-Jan-2015.

Marking scheme is according to this following table:

Evaluation Point	Description	Marks
1	Reading file contents	1
2	Decoding departments	1
3	Create pipe, placing contents	1
4	Managing data in pipes	1
5	Output	1
6	Logic	5