

Assignment for 3rd Year 1st Semester Students

IT/PC/B/S/313

GUIDELINES

Try to write a clean program with enough comments.

At the beginning of the file, use block comments to write details about name, roll no, assignment details, input required and output generated.

Also put the compilation [should be WARNING free] and execution sequence under the block comment.

The name of the file should be as per the following format.

<Last two digit of Team No>_<Assignment No>

The type of the file should be .c

The assignment files should be uploaded using google form which I will email you later.

While coding, always use indentation of 4 spaces.

Blocks of code should be separated by a newline.

Always use command line argument handling to take inputs.

Late Submission will incur penalties.

Duplicate assignments will incur penalties.
[Marks will be allocated proportionately]

Not adhering to any of these guidelines will incur penalties.

For the description of any system/library call use man command.

Always use 'perror' routine to check the return status of the system/library call.

ASSIGNMENT – 3

(SOCKET Programming)

IPC using SOCKET

(10 Marks) [CO5]

Create two processes. Transfer 1GB file from parent to child using a Socket. Now, transfer the same file from child to parent using the same Socket.

Now, the parent process should compare the two files to make sure that the same file has returned back.

Also, print the time required to do this double transfer. Attach this output to the source file as a comment.

Please note that, you can see the socket which your program creates. There are also various bash shell commands available to see the sockets created by the program. So, once your program creates the socket, make sure you use proper command to see the socket info and paste that output as a comment in your source file.