

Command line arguments

please read http://www.tutorialspoint.com/cprogramming/c_command_line_arguments.htm

Hardcoded files are limited in that the user has no choice, lets use command line arguments and pass in the filenames so the user can choose whatever she likes. (much versatile!)

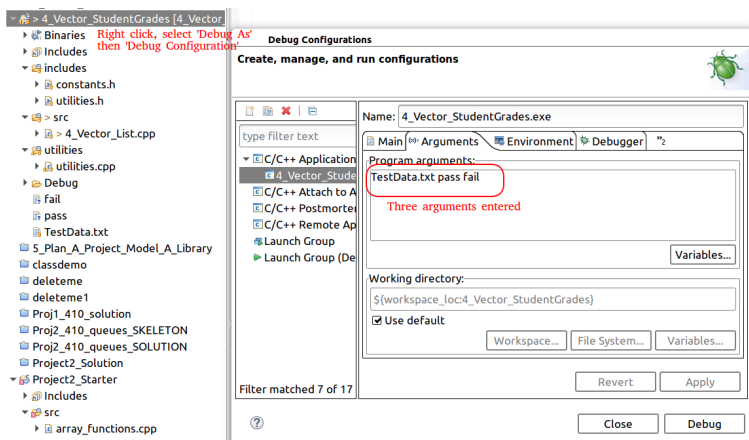
Note the 2 params in the main call now, note also the check to ensure that proper number of arguments passed in and proper error return code if not

```
int main( int argc, char *argv[] ) {
    //argc = how many arguments passed in (including this program)
    //char *argv[] char array of those arguments

    //expect progname infile passfile failfile //program and 3 arguments, argc=4
    if( argc != EXPECTED_NUMBER_ARGUMENTS ) {
        cout<< WRONG_NUMB_ARGS <<endl;
        return FAIL_WRONG_NUMBER_ARGS;
    }
    string infile = argv[1];
    string Passfile = argv[2];
    string Failfile = argv[3];

    return process_Data(infile,Passfile, Failfile);
}
```

Set up eclipse to pass these arguments in for testing



Pass at command line (note running from debug dir, and using ../TestData.txt

Terminal

```
[keith@keith-XPS-15-9550 4_Vector_StudentGrades]$ ls
Debug fail failTOASTER includes pass src TestData.txt utilities
[keith@keith-XPS-15-9550 4_Vector_StudentGrades]$ cd Debug/
[keith@keith-XPS-15-9550 Debug]$ ls
4_Vector_StudentGrades.exe makefile objects.mk sources.mk src utilities
[keith@keith-XPS-15-9550 Debug]$ ./4_Vector_StudentGrades.exe ../TestData.txt pass1 fail1
[keith@keith-XPS-15-9550 Debug]$ ls
4_Vector_StudentGrades.exe fail1 makefile objects.mk pass1 sources.mk src utilities
[keith@keith-XPS-15-9550 Debug]$ cat fail1
henry 0 0 0
[keith@keith-XPS-15-9550 Debug]$ cat pass1
ansel 70 80 76
brian 100 100 100
tumeric 0 100 60
[keith@keith-XPS-15-9550 Debug]$
```