Musab Mehadi mmehadi @ jacobs - university. de Matr no: 30003418 1 Problem Sheet #1 1:1) When the function runs, all he local variables are stored in the stack and when the function prishes the variables go out of scope. Since our function returns a pointer pointing to a variable that is no larger accessible, we get garbage values every time we try to run it. the right thing to do novder to correct this would be making that d [len +1] to State a char d [10]. Changing it to state will change the scope of that variable and will save it in the data section instead of the stack. 

1.2) a) int open (const char x path, int of lag, ...) The following values may be set for eveno after veloving @ [EINVAL] -> He implementation doesn't provide synchronized I/O por this file OR the value of the oflag argument isn't valid DEFINIR] → a signal was caught during open () DENFILE] -> He maximum allowable number of files is corrently open in the system. 6 DENOTDIR] -> a component of the file prefix is not a directory

DENOSPC] -> the directory of the rsystem can't be expanded or doesn't · int close (int fildes) - We might expect to see the following out comes for the eveno after returning -1. D [EBADF] -> The fildes argument isn't a valid file descriptor D[EINTR] -> The close() function was interrupted by a signal D[EIO]-s an I/O error while reading or writing. (0) b) . int open (const char & path, int oplag: ...) When successfull, it will return the lowest numbered non-negative File descriptor . Int close (int fildes) It will report zero when it's successfull. (0