Report

1. In my project I have implemented the following functions in cpmfsys.c
   DirStructType *mkDirStruct(int index,uint8_t *e);
   void writeDirStruct(DirStructType *d, uint8_t index, uint8_t *e);
   void makeFreeList();
   void printFreeList();
   int findExtentWithName(char *name, uint8_t *block0);
   bool checkLegalName(char *name);
   void cpmDir();
   int cpmRename(char *oldName, char * newName);
   int cpmDelete(char * name);

2. Firstly we need to run the makefile using the command
   make -f   Makefile

3. We can see that cpmRun executable file being created
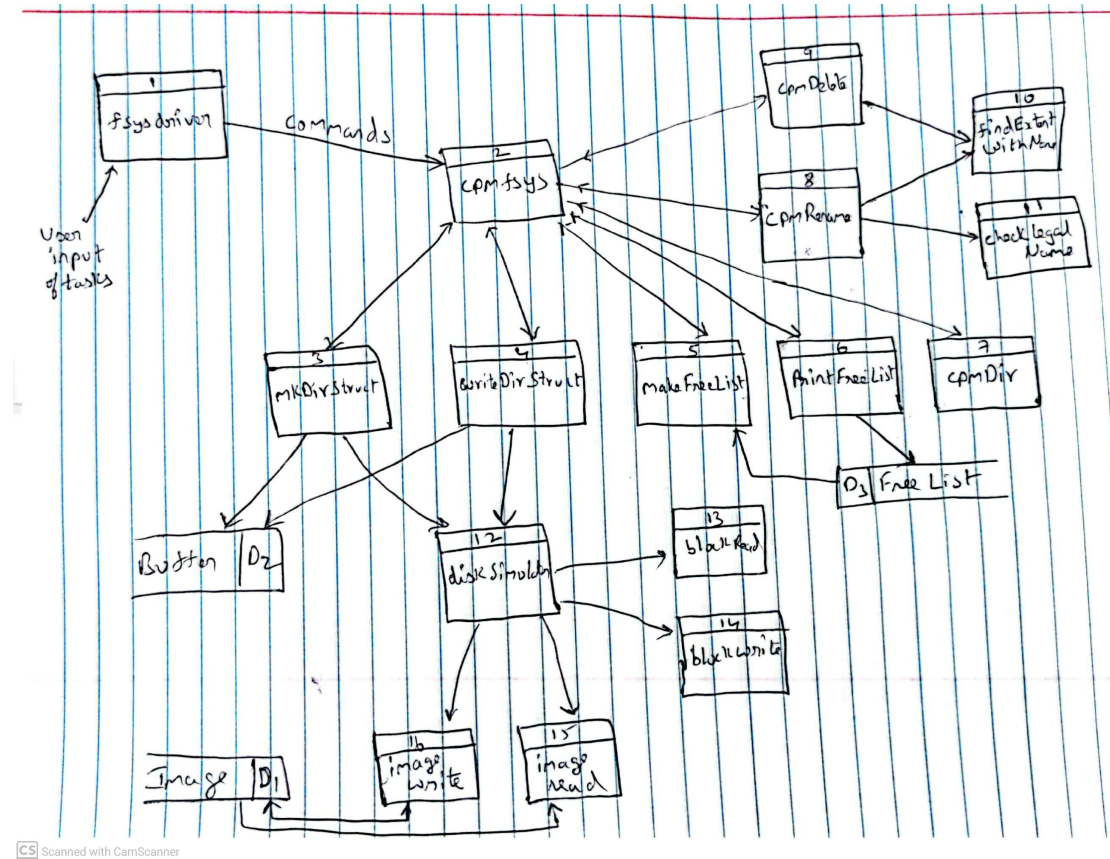4. When we run the cpmRun using the command
   ./cpmRun   ,   we get the following output

5. We need to specify the commands we want to run in fsysdrive.c

The design for the project is as follows

In this project I learned
   Memory Allocation and freeing up of space after using the buffer
   I learned how to implement a file system
   I learned how to debug code using gdb tools.