# Part 3 Implementation details

File: mod_s2fs/s2fs.c in s2fs_part3.tar.gz. File is common for all the following subparts.

**3.1**

s2fs_make_inode function: Lines 15-26
Assignment of i_ino pointer to get_next_ino(): Line 23

**3.2**

s2fs_create_dir function: Lines 112-139

**3.3**

s2fs_file_ops definition: Line 77

**3.4**

s2fs_create_file function: Line 83

**3.5**

Included s2fs_part3.tar.gz tar file.

**3.6**

Following is a screenshot of the results of all the required commands.

```
[root@vl59:/home/student/oskernel/linux-4.18/mod_s2fs# sudo insmod s2fs.ko
[root@vl59:/home/student/oskernel/linux-4.18/mod_s2fs# sudo mount -t s2fs nodev mnt
[root@vl59:/home/student/oskernel/linux-4.18/mod_s2fs# cd mnt/foo
[root@vl59:/home/student/oskernel/linux-4.18/mod_s2fs/mnt/foo# cat bar
 Hello World!
[root@vl59:/home/student/oskernel/linux-4.18/mod_s2fs/mnt/foo# cd ../..
[root@vl59:/home/student/oskernel/linux-4.18/mod_s2fs# sudo umount ./mnt
[root@vl59:/home/student/oskernel/linux-4.18/mod_s2fs# sudo rmmod s2fs.ko
 root@vl59:/home/student/oskernel/linux-4.18/mod_s2fs# 
```