

My code has two functions `My_Module_init()` and `My_Module_exit()`. First function has the implementation to print the number of currently running processes. In this function first we define a pointer to `task_list` which points to the `task_struct`. Then we have a variable called `count` which is initialized to 0. Then we have used the `for_each_process()` macro to iterate over the `task_struct`. It takes one parameter which is the pointer to the `task_struct` which is `task_list`. In this macro we check if the process is the process which is currently running then we increment the count variable. After this process we just print the value of the count variable using `printk()`. Then we have a second function which just has one print statement. When the module is unloaded it just prints Module has been unloaded. Then at last I am using two macros. First macro is `module_init()` which is used to call the function at the time of loading the module. Second macro is `module_exit()` which is used to call the function at the time of unloading the module.