Assignment 8

Problem A:

Write a Linux Kernel Module in C which will accept a string as a command line argument and that command line argument string should get appended to /var/log/messages, after inserting the module into the kernel as well as removing the module from the kernel.

Hints:

* Learn about loadable kernel module.
* Go through the command lsmod, insmod, rmmod, modinfo, etc.

Problem B:

Implement malloc() in C programming languge.
For example, look at the following code for dynamic memory allocation-

```
#define N 10
int main()
{
        int i, *array;
        printf("\nEnter N numbers: ");
        array  =  MyOwnMalloc( sizeof( int ) * N );
        for( i=0; i<N; i++)
                scanf("%d", &array[i]);
        printf("\n The numbers are: \n");
        for(i=0; i<N; i++)
                printf(" %d", array[i]);
        return 0;
}
```

So, your job is to implement the **MyOwnMalloc( )** function. The above code segment is showing only for integer type, but your job is to implement it for any type allocation.

Again, try to implement free() also.