1. Names of the students: Priyanshu Jain, Sayali Patil, Shadi Davari

2. Output:

Current UID: 1894915

Error: setuid failed! Reason: Operation not permitted

Changed UID: 1894915

3. Output:

Current UID: 1000

Error: setuid failed! Reason: Operation not permitted

Changed UID: 1000

Difference: Not much difference other than the fact that the UID was 1000 in raspberry pi instead of the longer UID on the linux lab.

4. Output:

Current UID: 1000

Error: setuid failed! Reason: Operation not permitted

Changed UID: 1000

5. Function Prototypes:

```
asmlinkage int new_func1(void);
asmlinkage int new_func2(int singleArg);
```

6. Implementation of a single argument function:

```
#include <linux/kernel.h>
#include <linux/init.h>
#include <linux/sched.h>
#include <linux/syscalls.h>

SYSCALL_DEFINE1( new_func2, int, singleArg ){
printk("Value of parameter passed: %d\n", singleArg);
return 0;
}
```

7. Newly modified line of Makefile:

stacktrace.o sys_arm.o time.o traps.o sys_new_func1.o sys_new_func2.o

8. Changes added to the syscall.tbl file:

```
398 common new_func1 sys_new_func1 399 common new_func2 sys_new_func2
```

9. Output produced by uname -a:

Linux pikachan 4.14.62-v7priyanshustudio3 #4 SMP PREEMPT Fri Sep 13 13:40:37 CDT 2019 armv7l GNU/Linux

10. System message log:

```
[ 964.206235] Someone invoked the sys_noargs system call [ 964.206756] Someone invoked the sys_noargs system call [ 964.206866] Value of parameter passed: 0
```