LAB EXAM

ROLL NO-12340740

Question 1

output:-

```
    SeaBIOS (version 1.16.3-debian-1.16.3-2)


    iPXE (https://ipxe.org) 00:03.0 CA00 PCI2.10 PnP PMM+1EFCB050+1EF0B050 CA00



    Booting from Hard Disk...
    cpu0: starting 0
    sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap star
    t 58
    init: starting sh
    12340740_FARHAN$
```

Question 2

```
SeaBIOS (version 1.16.3-debian-1.16.3-2)


iPXE (https://ipxe.org) 00:03.0 CA00 PCI2.10 PnP PMM+1EFCB050+1EF0B050 CA00



Booting from Hard Disk...
cpu0: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap star
t 58
init: starting sh
12340740_FARHAN$ testtoupper
Before: Write Your FUll Name Here
After: WRITE YOUR FULL NAME HERE
```

Question 3

Question 4)

```
t 58
init: starting sh
12340740_FARHAN$ faulttest
Page faults : 2
Page faults afte : 6
12340740_FARHAN$ _
```

Question 5)

```
Every 2.0s: pmap -x 394667

394667:    ./a.out
Address          Kbytes     RSS   Dirty Mode  Mapping
00005e5d886b8000      4       4       0 r---- a.out
00005e5d886b9000      4       4       0 r-x-- a.out
00005e5d886ba000      4       4       0 r---- a.out
00005e5d886bb000      4       4       4 r---- a.out
00005e5d886bc000      4       4       4 rw--- a.out
00005e5dbb0fd000    132       8       8 rw---    [ anon ]
0000701ac7600000    160     156       0 r---- libc.so.6
0000701ac7628000   1568     976       0 r-x-- libc.so.6
0000701ac77b0000    316      64       0 r----- libc.so.6
0000701ac77ff000     16      16      16 r---- libc.so.6
0000701ac7803000      8       8       8 rw--- libc.so.6
0000701ac7805000     52      20      20 rw---    [ anon ]
0000701ac7954000     12       8       8 rw---    [ anon ]
0000701ac7972000      8       4       4 rw---    [ anon ]
0000701ac7974000      8       0       0 r----    [ anon ]
0000701ac7976000      8       0       0 r----    [ anon ]
0000701ac7978000      8       4       0 r-x--    [ anon ]
0000701ac797a000      4       4       0 r---- ld-linux-x86-64.so.2
0000701ac797b000    172     172       0 r-x-- ld-linux-x86-64.so.2
0000701ac79a6000     40      40       0 r---- ld-linux-x86-64.so.2
0000701ac79b0000      8       8       8 r---- ld-linux-x86-64.so.2
0000701ac79b2000      8       8       8 rw--- ld-linux-x86-64.so.2
00007fffad7e9000    136      20      20 rw---    [ stack ]
ffffffffff600000      4       0       0 --x--    [ anon ]
---------------- ------- ------- -------
total kB          2688    1536     108
```

Question 6)

```
Starting FIFO page replacement simulation...
Access page 1: MISS, replacing page -1
Access page 2: MISS, replacing page -1
Access page 3: MISS, replacing page -1
Access page 4: MISS, replacing page 1
Access page 1: MISS, replacing page 2
Access page 2: MISS, replacing page 3
Access page 5: MISS, replacing page 4
Access page 1: HIT
Access page 2: HIT
Access page 3: MISS, replacing page 1
Access page 4: MISS, replacing page 2
Access page 5: HIT
Access page 0: MISS, replacing page 5
Access page 0: HIT
Access page 0: HIT
FOR SIZE 3
FIFO simulation completed.
Total hits: 5
Total misses: 10
Starting FIFO page replacement simulation...
Access page 1: MISS, replacing page -1
Access page 2: MISS, replacing page -1
Access page 3: MISS, replacing page -1
Access page 4: MISS, replacing page -1
Access page 1: HIT
Access page 2: HIT
Access page 5: MISS, replacing page 1
Access page 1: MISS, replacing page 2
Access page 2: MISS, replacing page 3
Access page 3: MISS, replacing page 4
Access page 4: MISS, replacing page 5
Access page 5: MISS, replacing page 1
Access page 0: MISS, replacing page 2
Access page 0: HIT
Access page 0: HIT
FOR SIZE 4
FIFO simulation completed.
Total hits: 4
Total misses: 11
12340740_FARHAN$
```