**Ex1**

**Part2**

1. buffer time(ms)

size

|  |  |
| --- | --- |
| 128 | 117 |
| 256 | 105 |
| 512 | 83 |
| 1024 | 79 |
| 2048 | 73 |

As the buffer is bigger then there are less calls to disk, every call spend time therefore – less calls to disk the program run faster.

2. Yes, print is a system call therefore. It will cause many system call and therefore the time running will increase.

Part 3

1. False, print is a system call therefore it make from the kernel.
2. False, pressing key is hardware interrupt and not a system call
3. False, interrupts stop the cpu
4. False, web browser run on the user but sometimes it need to access to operation system
5. False, web run as a user.
6. True, it is possible to decline the interrupt
7. False, the virtual machine don’t have more resources then the computer it runs on
8. False, the app can run as a user and to use a system calls
9. False, system calls are slow because the switch context
10. False, it makes by the interupts