

1. a) Yes, they are part of system call's Application Programming Interface, and they are the only way to interact between computer program and OS kernel.

Notes

- **System Calls**

- Is issued by a client
- Is the only entry points into the kernel system
- Provides services via API or Application Program Interface
- Has five different types

Types of System Calls	Windows	Linux
Process Control	CreateProcess() ExitProcess() WaitForSingleObject()	fork() exit() wait()
File Management	CreateFile() ReadFile() WriteFile() CloseHandle()	open() read() write() close()
Device Management	SetConsoleMode() ReadConsole() WriteConsole()	ioctl() read() write()
Information Maintenance	GetCurrentProcessID() SetTimer() Sleep()	getpid() alarm() sleep()
Communication	CreatePipe() CreateFileMapping() MapViewOfFile()	pipe() shmget() mmap()

Example

`open()`, `read()`, `write()`, `close()`, `mkdir()` are other examples of system calls

References

- 1) Tutorials Point, Types of System Calls, [link](#)

b) Notes

- **Memory API**

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