Shubhan Fingh tlassmate. 2022300118 SE comps B Enp 3 report: System calls and processes Illustration of multiple consecutive fork cells: P, fork (): n consecutive 1 fork()
executed forh calls result in 2" P. fork(); C] fork(); copies of the process 1 for h
expected

Py

C, Gy

C3 (including the parent) Learnings and experiences: In this experiment we learnt about the fork () and wait () system calls. The fork () system call is used to create a copy of the procen that would run concurrently with the original using the same register and program counter i.e. it would not run of another core, but were the processes would fuitch exchange conhot of the process while one was waiting. The wait () (all makes the parent procen waill till all of its children have terminated. This can be used to with dother calls to make the parent act upon the exit menages of the children. It can also be and to prevent thend orphan processes (when init calls it). We also learn about zombie and orphan processes. There are types of procured based on the order state of the parent procen. Orphan procenes are those whose parent terminal first and they are allocated another parent (the init procen), while zombit hunchiom one those which end before their parent but their PIDs are still hept so that the parent would later read their cuit Staties