```
today: system call Fins
    so core to execution of 05, have to execute un superturant permissions
    open / read/wite/close
each process operates as if it has all of main menony
    64-bit adds means 264-1 bits to address
                         Dox FF...
Top 1/2 to 1/4 relegated to 05 for system cell info-council denterence any addr up here-private to 05
                                                                         gows down
                                 bss (all uninitalized global vars)
                                                                             Foo
now... creating now pocesses (instead of files)
    fork
          int man (-) }
               pantf ("Hello \n");
                Tork(); //creater second capy of process cally forts, allow both to contine in possible
               printf ("Goodbye In");
                return O;
          const do * kTo: = "abcd";
          int mate (->) {
               For ( size_t i=0; i 4 states (kTox!); i++) }
                     printf ("/.cln", letail [i]);
                     pid-t pid= fork(); < will custome exection from

the middle of for loop-
engthing is would of three ble process centred in middle of fork() (all
engthing is would of three process ID of child in argual
type: special kind of int

retions 0 in child - easy way to different the
          has are they all printing to the same terrical? Fork creates cap of extre PCB of parent process, including chases to till describe table
           fork bamb: while (fue) fork ();
                takes total ownership of (Pa
     another system call:
         pid_t vaitpid (pid_t pid,
                             int * status
                             int options);
     int morn (->) {
         proff ("Hello\n");
         pd_t pd = fork();
          if (pid == 0) {
               The are in the shild of the forting posess
               proff ("In the child, non waits for ne In");
                return 110;
```

```
3 else 2
int status;
vartped (prof, & status, 0);
proff ("Child retuned : d. Ini quelling. Ini) WEXITSTATUS (status));
}
return 0;
```