Name: Ky Sridhay Tutorial-1 POIL CB. EN. UYCSE 19063 Operating Systems # include cstdions int moun() { it I dinois int a = 10; if (fork() = =0) { ...) // ... printf("",din,a); rell in powert process printf ("Ind emo, al); sticht completer. Sol: The output of this code would be (Iraq ti wit)()) 15 and 5. (0 = = () HI () + 1 >/ Tracing: 1 & Step 1:110 =010 10 (a. mys. 1. ") faring Step-2: fork() == 0 -> child process 2+01 D WOU is created 21 stiring word process the return and in the else post value of fork we have the code for the powerst process. 61000 63001

so we should move to powent process first o (i.e) The else poort > poouent procen code: (else port!) wait (); a= a- 5; printf (",, din", a); Now since there is a wait system call in powent process. function of wait () crystem call? Moits till one of its child process completer. Now control goes to the child process (i.e) (The if part) if (fork() = = 0) > True (child-process) printf ("/dm,a) a=10 initially Now a=10+5 prints 15' Now the povent proces thoy sola only in Trais continues. parent & child ou 2 different processes (cont

once the memory gets copied to child it never gets updated due to povent. So here also a = 10 (remains) posent proces continution! a = 01-5; Printf (" ",d m", a); -> prints 5'