

MUHAMMAD AWAIS

int main(int argc, char **argv) [









```
aetooc@neo: ~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03
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#include <stdlib.h>
#include <unistd.h>
#include <stdio.h>
```

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```
#include <stdlib.h>
#include <unistd.h>
#include <stdio.h>
int main(int argc, char **argv) {
printf("my process ID is %d\n", getpid());
printf("my parent's process ID is %d\n", getppid());
exit(0);
```

```
(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03$ vi getids.c
(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03$ gcc -o getids getids.c
(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03$ ./getids
my process ID is 10446
my parent's process ID is 6424
(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03$
```

```
/* fork: create a new process */
#include <stdlib.h> /* needed to define exit() */
#include <unistd.h> /* needed for fork() */
#include <sys/wait.h> /* needed for wait() */
#include <stdio.h> /* needed for printf() */
int main(int argc, char **argv) 🛮
int pid; /* process ID */
pid = fork();
if (pid == -1) {
perror("Error");
if (pid == 0)
printf ("\nIn Child!\nChild's PID: %d\n", getpid());
else
printf ("\nParent!\nParent's PID: %d\n", getpid());
printf ("Child's PID: %d\n", pid);
sleep(1);
exit(0);
```

```
(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03$ vi second.c
(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03$ gcc -o second second.c
(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03$ ./second
```

```
Parent!
```

```
Parent's PID: 10541
```

(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03\$

Child's PID: 10542

Child's PID: 10542

In Child!





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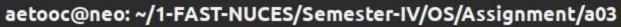
```
#include <stdlib.h> /* needed to define exit() */
#include <unistd.h> /* needed for fork() */
#include <stdio.h> /* needed for printf() */
int main(int argc, char **argv) {
fork();
fork();
fork();
sleep(10000);
exit(0);
```

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(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03\$ gcc -o forkexample forkexample.c (anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03\$./forkexample

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0:00 grep --color=auto forkexample

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(anaconda3)aetooc@neo:~/1-FAST-NUCES/Semester-IV/OS/Assignment/a03\$

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