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Activities Terminal Thu Mar 5, 11:54:08 PM
iffishells@ubuntu: ~/Desktop/Assignmnet_Number_02

File Edit View Search Terminal Tabs Help

iffishells@ubuntu: ~/Desktop/Assignmnet_Number_02
iffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ps aux | grep ./forkexample
iffishe+ 5515  0.0  0.0  21532 1088 pts/2    S+   23:24   0:00 grep --color=auto ./forkexample
iffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ps aux | grep ./forkexample
iffishe+ 5521  0.0  0.0   4504   812 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5522  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5523  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5524  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5525  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5526  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5527  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5528  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5531  0.0  0.0  21532 1060 pts/2    S+   23:24   0:00 grep --color=auto ./forkexample
iffishells@ubuntu:~/Desktop/Assignmnet_Number_02$
```

```
Activities Terminal Thu Mar 5, 11:54:09 PM
iffishells@ubuntu: ~/Desktop/Assignmnet_Number_02

File Edit View Search Terminal Tabs Help

iffishells@ubuntu: ~/Desktop/Assignmnet_Number_02
iffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ps aux | grep ./forkexample
iffishe+ 5515  0.0  0.0  21532 1088 pts/2    S+   23:24   0:00 grep --color=auto ./forkexample
iffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ps aux | grep ./forkexample
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iffishe+ 5522  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
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iffishe+ 5525  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5526  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5527  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5528  0.0  0.0   4504    72 pts/0    S+   23:24   0:00 ./forkexample
iffishe+ 5531  0.0  0.0  21532 1060 pts/2    S+   23:24   0:00 grep --color=auto ./forkexample
iffishells@ubuntu:~/Desktop/Assignmnet_Number_02$
```

Total 8 process created by exuating

```
Activities Text Editor Sat Mar 7, 2:50:01 AM
fork.c
~/Desktop/Assignmnet_Number_02
Save

1 /* fork: create a new process */
2 #include <stdlib.h> /* needed to define exit() */
3 #include <unistd.h> /* needed for fork() */
4 #include <sys/wait.h> /* needed for wait() */
5 #include <stdio.h> /* needed for printf() */
6 int main(int argc, char **argv)
7 {
8     int pid; /* process ID */
9     pid = fork();
10    if (pid == -1)
11    {
12        perror("Error");
13    }
14    else if (pid == 0 )
15    {
16        printf(" This is chld process . and his ID is : %d.\n", getpid() ); /* for getpid() will return pid of child*/
17    }
18
19    else if (pid > 0)
20    {
21        printf("This is parent process and child ID is : %d.\n", pid ); /* will return pid of chld class*/
22        printf("This is parent process and his ID is : %d.\n", getppid()); /* for getpid() will return pid of parent*/
23    }
24
25    sleep(1);
26
27    exit(0);
28 }
29
30
31
32
33
34
35 }
```

```
Activities Terminal Sat Mar 7, 2:50:14 AM
~/Desktop/Assignmnet_Number_02
ifffishells@ubuntu: ~/Desktop/Assignmnet_Number_02
File Edit View Search Terminal Help
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is child process . and his ID is : 9227.
This is child process . and his ID is : 9228.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is child process . and his ID is : 9242.
This is child process . and his ID is : 9243.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 9080.
This is parent process and child ID is : 9249.
This is child process . and his ID is : 9250.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 9616.
This is parent process and his ID is : 9080.
This is child process . and his ID is : 9617.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ cd ..
ifffishells@ubuntu:~/Desktop$ cd..
cd..: command not found
ifffishells@ubuntu:~/Desktop$ touch fork
ifffishells@ubuntu:~/Desktop$ cd Assignmnet Number 02/
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 9966.
This is parent process and his ID is : 9080.
This is child process . and his ID is : 9967.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ cd ..
ifffishells@ubuntu:~/Desktop$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop$ ./fork
Current process Id : 9988
Parent Process Id : 9988 Its Child Process ID : 9989
Child Process Id : 9989 Its parent ID :9988
ifffishells@ubuntu:~/Desktop$ cd Assignmnet Number 02/
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 10031.
This is parent process and his ID is : 9080.
This is child process . and his ID is : 10031.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$
```

Activities Text Editor Sat Mar 7, 2:51:00 AM

Open + forkexample.c ~/Desktop/Assignmnet\_Number\_02 Save

```
1 /* fork: create a new process */
2 #include <stdlib.h> /* needed to define exit() */
3 #include <unistd.h> /* needed for fork() */
4 #include <stdio.h> /* needed for printf() */
5 int main(int argc, char **argv) {
6     printf("callllg : " );
7     fork();
8     fork();
9     fork();
10
11     sleep(10000);
12     exit(0);
13 }
```

C Tab Width: 8 Ln 1, Col 1 INS

Activities Text Editor Sat Mar 7, 2:51:13 AM

Open + getids.c ~/Desktop/Assignmnet\_Number\_02 Save

```
1 /* getpid: print a child's and its parent's process ID numbers */
2 #include <stdlib.h>
3 #include <unistd.h>
4 #include <stdio.h>
5 int main(int argc, char **argv)
6 {
7     printf("my process ID is %d\n", getpid());
8     printf("my parent's process ID is %d\n", getppid());
9     exit(0);
10 }
```

C Tab Width: 8 Ln 1, Col 1 INS

```
Activities Terminal Sat Mar 7, 2:52:08 AM
Open + getids.c ~/Desktop/Assignmnet_Number_02 Save
1 /* getpid: print a child's and its parent's process ID numbers */
2 #include <stdlib.h>
3 #include <unistd.h>
4 #include <stdio.h>
5 int main(int argc, char **argv)
6 {
7     printf("my process ID is %d\n", getpid());
8     printf("my parent's process ID is %d\n", getppid());
9     exit(0);
10 }

ifffishells@ubuntu: ~/Desktop/Assignmnet_Number_02
File Edit View Search Terminal Help
This is child process . and his ID is : 9228.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is child process . and his ID is : 9242.
This is child process . and his ID is : 9243.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and his ID is : 9080.
This is parent process and child ID is : 9249.
This is child process . and his ID is : 9250.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and his ID is : 9080.
This is parent process and child ID is : 9616.
This is child process . and his ID is : 9617.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ cd ..
ifffishells@ubuntu:~/Desktop$ cd
cd.: command not found
ifffishells@ubuntu:~/Desktop$ touch fork
ifffishells@ubuntu:~/Desktop$ cd Assignmnet_Number_02/
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 9966.
This is parent process and his ID is : 9080.
This is child process . and his ID is : 9967.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ cd ..
ifffishells@ubuntu:~/Desktop$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop$ ./fork
Current process ID : 9988
Parent Process ID : 9988 Its Child Process ID : 9989
Child Process ID : 9989 Its parent ID : 9988
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ cd Assignmnet_Number_02/
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 10031.
This is parent process and his ID is : 9080.
This is child process . and his ID is : 10031.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./getids
my process ID is 10183
my parent's process ID is 9080
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$
```

```
Activities Terminal Sat Mar 7, 3:07:37 AM
Open + fork.c ~/Desktop/Assignmnet_Number_02 Save
1 /* fork: create a new process */
2 #include <stdlib.h> /* needed to define exit() */
3 #include <unistd.h> /* needed for fork() */
4 #include <sys/wait.h> /* needed for wait() */
5 #include <stdio.h> /* needed for printf() */
6 int main(int argc, char **argv)
7 {
8     int pid; /* process ID */
9     pid = fork();
10    if (pid == -1)
11    {
12        perror("Error");
13    }
14    else if (pid == 0)
15    {
16        printf("In child . and his ID is : %d.\n", getpid()); /*
17        for getpid() will return pid of child*/
18    }
19    else if (pid > 0)
20    {
21        printf("This is parent process and child ID is : %d.\n", pid); /* will return pid of child class*/
22    }
23    printf("This is parent process and his ID is : %d.\n", getppid()); /* for getpid() will return pid of parent*/
24    sleep(1);
25    exit(0);
26 }

ifffishells@ubuntu: ~/Desktop/Assignmnet_Number_02
File Edit View Search Terminal Help
This is child process . and his ID is : 9250.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 9616.
This is parent process and his ID is : 9080.
This is child process . and his ID is : 9617.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ cd ..
ifffishells@ubuntu:~/Desktop$ cd
cd.: command not found
ifffishells@ubuntu:~/Desktop$ touch fork
ifffishells@ubuntu:~/Desktop$ cd Assignmnet_Number_02/
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 9966.
This is parent process and his ID is : 9080.
This is child process . and his ID is : 9967.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ cd ..
ifffishells@ubuntu:~/Desktop$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop$ ./fork
Current process ID : 9988
Parent Process ID : 9988 Its Child Process ID : 9989
Child Process ID : 9989 Its parent ID : 9988
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ cd Assignmnet_Number_02/
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 10031.
This is parent process and his ID is : 9080.
This is child process . and his ID is : 10031.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./getids
my process ID is 10183
my parent's process ID is 9080
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./getids
my process ID is 10908
my parent's process ID is 9080
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$ ./fork
This is parent process and child ID is : 10910.
This is parent process and his ID is : 9080.
In child . and his ID is : 10910.
ifffishells@ubuntu:~/Desktop/Assignmnet_Number_02$
```