Total 8 process created by exuating

fork.c — ~/Desktop/Assignmnet_Number_02

```c
/* 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");
                }
        else if (pid == 0 )
                {
                        printf(" This is child process . and his ID is  : %d.\n", getpid() ); /* for getpid() will return pid of child*/


                }
        else if(pid>0)
        {
                        printf("This is parent process and child ID is : %d.\n",pid ); /* will return pid of child class*/

                        printf("This is parent process and his ID is : %d.\n",getppid());        /* for getpid() will return pid of parent*/


        }
        sleep(1);


        exit(0);


}
```

Terminal output:

```
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ ./fork
This is child process . and his ID is  : 9227.
This is child process . and his ID is  : 9228.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ ./fork
This is child process . and his ID is  : 9242.
This is child process . and his ID is  : 9243.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ cd ..
iffishells@ubunto:~/Desktop$ cd..
cd..: command not found
iffishells@ubunto:~/Desktop$ touch fork
iffishells@ubunto:~/Desktop$ cd Assignmnet_Number_02/
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ cd ..
iffishells@ubunto:~/Desktop$ g++ fork.c -o fork
iffishells@ubunto:~/Desktop$ ./fork
Current process Id : 9988
Parent Process Id : 9988 Its Child Process ID : 9989
Child Process Id : 9989 Its parent ID :9988
iffishells@ubunto:~/Desktop$ cd Assignmnet_Number_02/
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$
```

forkexample.c
~/Desktop/Assignmnet_Number_02

```c
/* fork: create a new process */
#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) {
        printf(" calllig :" );
        fork();
        fork();
        fork();

        sleep(10000);
        exit(0);
}
```

getids.c
~/Desktop/Assignmnet_Number_02

```c
/* getppid: print a child's and its parent's process ID numbers */
#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);
}
```

Screenshot 1

getids.c — ~/Desktop/Assignmnet_Number_02

```c
/* getppid: print a child's and its parent's process ID numbers */
#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);
}
```

C ▾   Tab Width: 8 ▾   Ln 1, Col 1   INS

iffishells@ubunto: ~/Desktop/Assignmnet_Number_02

File Edit View Search Terminal Help

```
This is child process . and his ID is  : 9228.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ ./fork
This is child process . and his ID is  : 9242.
This is child process . and his ID is  : 9243.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ cd ..
iffishells@ubunto:~/Desktop$ cd..
cd..: command not found
iffishells@ubunto:~/Desktop$ touch fork
iffishells@ubunto:~/Desktop$ cd Assignmnet_Number_02/
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ cd ..
iffishells@ubunto:~/Desktop$ g++ fork.c -o fork
iffishells@ubunto:~/Desktop$ ./fork
Current process Id :9988
Parent Process Id : 9988 Its Child Process ID : 9989
Child Process Id : 9989 Its parent ID :9988
iffishells@ubunto:~/Desktop$ cd Assignmnet_Number_02/
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ ./getids
my process ID is 10183
my parent's process ID is 9080
iffishe                                               $
```

Screenshot 2

fork.c — ~/Desktop/Assignmnet_Number_02

```c
/* 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");
               }
        else if (pid == 0)
               {
                       printf(" In child . and his ID is  : %d.\n", getpid() ); /*
for getpid() will return pid of child*/


               }
        else if(pid>0)
               {
                       printf("This is parent process and child ID is : %d.
\n",pid ); /* will return pid of child class*/

                       printf("This is parent process and his ID is : %d.
\n",getppid()); /* for getpid() will return pid of parent*/


               }
        sleep(1);


        exit(0);


}
```

C ▾   Tab Width: 8 ▾   Ln 16, Col 42   INS

iffishells@ubunto: ~/Desktop/Assignmnet_Number_02

File Edit View Search Terminal Help

```
 This is child process . and his ID is  : 9250.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ cd ..
iffishells@ubunto:~/Desktop$ cd..
cd..: command not found
iffishells@ubunto:~/Desktop$ touch fork
iffishells@ubunto:~/Desktop$ cd Assignmnet_Number_02/
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ cd ..
iffishells@ubunto:~/Desktop$ g++ fork.c -o fork
iffishells@ubunto:~/Desktop$ ./fork
Current process Id :9988
Parent Process Id : 9988 Its Child Process ID : 9989
Child Process Id : 9989 Its parent ID :9988
iffishells@ubunto:~/Desktop$ cd Assignmnet_Number_02/
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ ./getids
my process ID is 10183
my parent's process ID is 9080
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ g++ fork.c -o fork
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$ ./getids
my process ID is 10908
my parent's process ID is 9080
iffishells@ubunto:~/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.
iffishells@ubunto:~/Desktop/Assignmnet_Number_02$
```