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ROLL NO. P10-0104

(LAB TASK # 6)

OS(LAB): SECTION(4A)

Question #01

Code

```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h> void
main()
{


    fork();    fork();
fork();   fork();
fork();   fork();
fork();   fork();
printf("Hello \n");


}
```
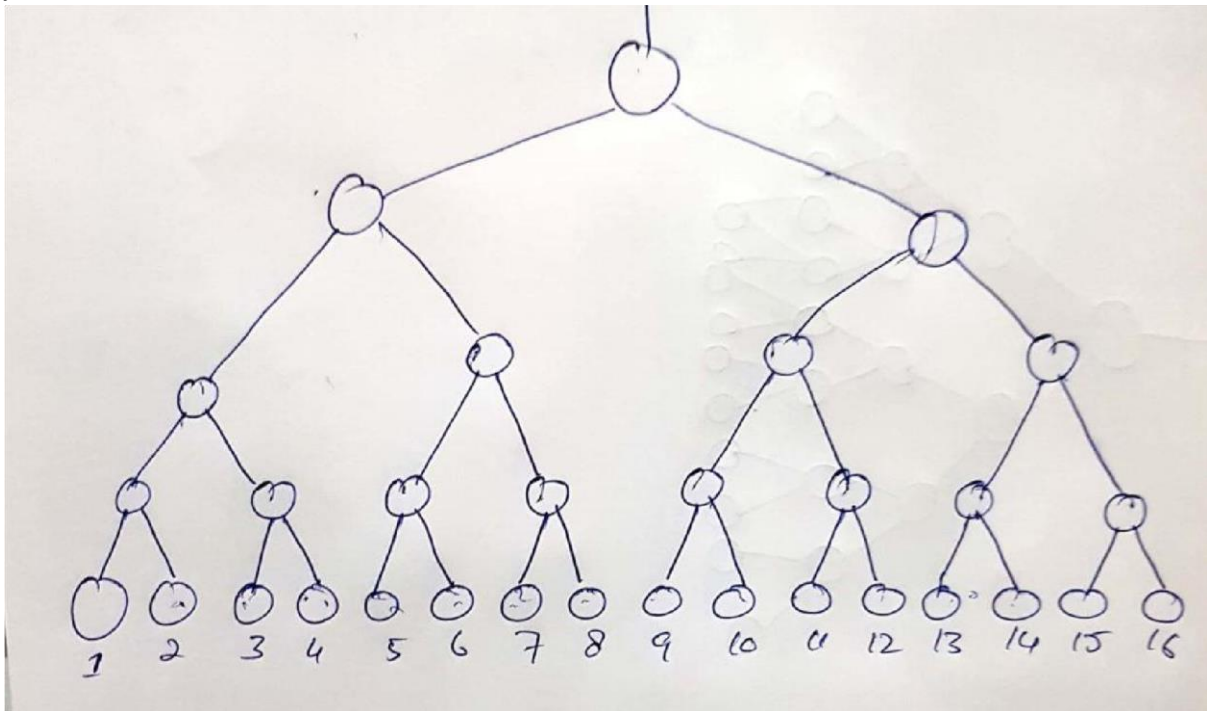
OUTPUT:

```
ibrarbabr@noman-siddique:~$ gcc Fork1.c -o Fork1
ibrarbabr@noman-siddique:~$ ./Fork1
Hello
ibrarbabr@noman-siddique:~$ Hello
Hello
Hello
Hello
Hello
Hello
Hello
Hello
Hello
Hello
Hello
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Hello
Hello
```

PROCESSES = 256

Hello prints = 256

Tree hierarchy for 16 Processes:

#include <stdio.h>

#include <sys/types.h>

#include <unistd.h> void

main()

{

```c
  fork();

fork();   fork();

fork();


  printf("Hello \n");


}
```


Question #02

Code

```c
#include <stdio.h>

#include <sys/types.h>

#include <unistd.h>


void main()
```

```c
{
int pid = fork(); if(pid
== 0)

{   fork();   fork();
printf("Hello \n"); }

else
{   fork();
printf("Hello \n");

}
}
```

OUTPUT

```
ibrarbabr@noman-siddique:~$ gcc Fork2.c -o Fork2
ibrarbabr@noman-siddique:~$ ./Fork2
Hello
ibrarbabr@noman-siddique:~$ Hello
Hello
Hello
Hello
Hello
ibrarbabr@noman-siddique:~$ █
```

PROCESSES = 6

Hello prints = 6

Tree hierarchy