Operating Systems – OS

Lab Task 12 (OS-012)

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Tasks

Solution:

Task 1:

Put the code in a directory with file having .sh extension and execute.

Open

task01.sh
~/lab12

```
#1/bin/sh
trap "echo ---  Trapped is called. This is user Defined Handler " 2 3
for ((i=1; 1<=10; i++))
do
        echo Trapped Test.......
        sleep
done
trap 2 3
```

```
Trapped Test.......
sleep: missing operand
Try 'sleep --help' for more information.
Trapped Test.......
sleep: missing operand
Try 'sleep --help' for more information.
Trapped Test.......
sleep: missing operand
Try 'sleep --help' for more information.
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sleep: missing operand
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Try 'sleep --help' for more information.
Trapped Test.......
sleep: missing operand
Try 'sleep --help' for more information.
Trapped Test.......
sleep: missing operand
Try 'sleep --help' for more information.
Trapped Test.......
^C--- Trapped is called. This is user Defined Handler
```

Task 2:

Copy the following code, execute and see the results.

```
muhammadroshaanidrees56177@Ubuntu:~/lab12$ cd ..
muhammadroshaanidrees56177@Ubuntu:~$ cd lab12
muhammadroshaanidrees56177@Ubuntu:~/lab12$ touch task02.c
muhammadroshaanidrees56177@Ubuntu:~/lab12$ cat<task02.c
#include <signal.h>
#include <stdio.h>
#include <unistd.h>
void catcher (int sigtyp)
{
        printf("--- I GOT THE SIGNAL \n ");
        signal(SIGINT,catcher);
}
int main (void)
{
        int i;
        signal (SIGINT, catcher);
        for (int i=0; i<20; i++)
        {
        printf("WORKING .....\n");
        sleep(1);
        }
}
```

```
muhammadroshaanidrees56177@Ubuntu:~/lab12$ gcc task02.c -o output2
muhammadroshaanidrees56177@Ubuntu:~/lab12$ ./output2
WORKING .....
WORKING .....
WORKING .....
WORKING .....
WORKING .....
WORKING .....
WORKING .....
WORKING .....
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WORKING .....
muhammadroshaanidrees56177@Ubuntu:~/lab12$
```
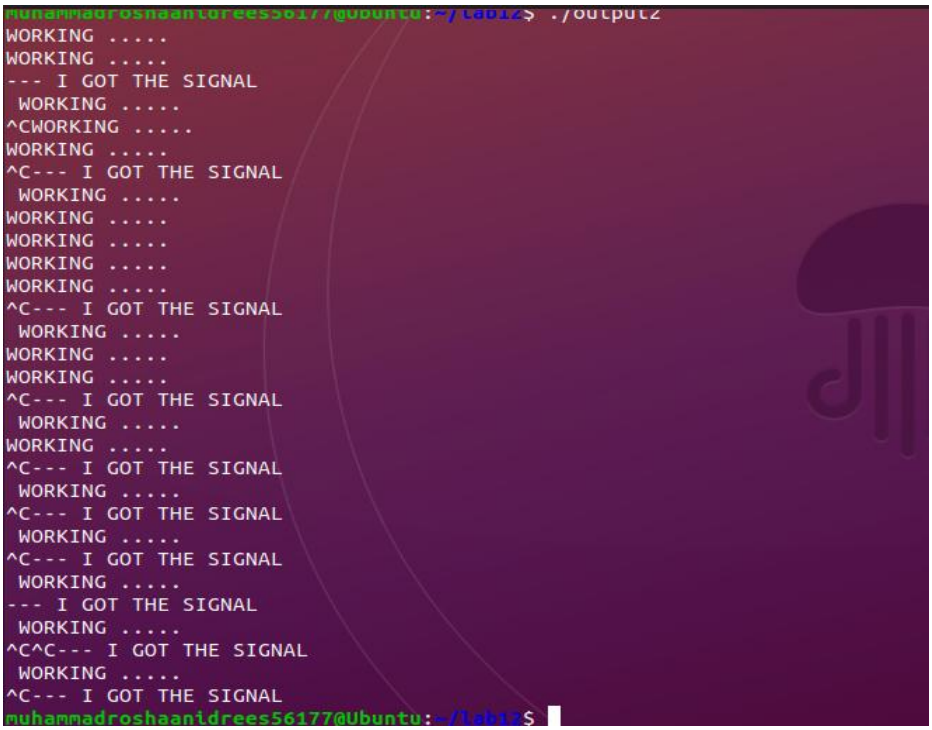
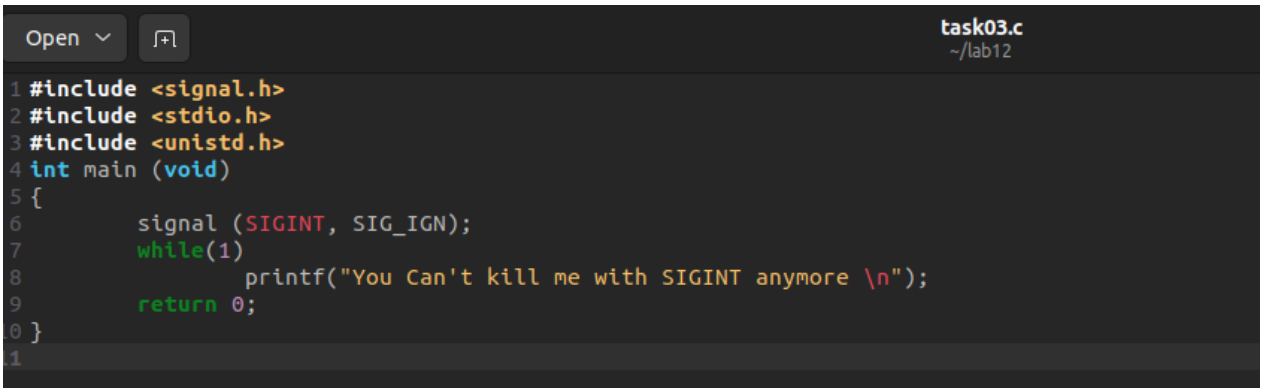



Task 3:

Put the code in a directory with file having .c extension and execute.



```
You Can't kill me with SIGINT anymore
You Can't kill me with SIGINT anymore
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You Can't kill me with SIGINT anymore
You Can't kill me with SIGINT anymore
You Can't kil
^Z[1]+  Stopped                 ./output3
```
