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MCS 171 – Unix Lab Test – 2 (Nov 07, 2020)

## Question 01:

```
kumarraj@kumarraj: ~/MCS_172/LabTest2
kumarraj@kumarraj:~/MCS_172/LabTest2$ bash ex.sh &
[2] 216
kumarraj@kumarraj:~/MCS_172/LabTest2$ bash q1.sh
```

```
===== Menu =====
```

- 1: Set Priority
- 2: Change Priority
- 3: Stop process
- 4: Display Process Info
- 5: Display Process Hierarchy
- 6: Clear
- 7: Exit

```
=====
```

```
Enter the command: 1
```

```
Enter the command to set priority:
```

```
gcc q2.c
```

```
Enter priority value (Most -20 to least 19):
```

```
5
```

```
kumarraj@kumarraj: ~/MCS_172/LabTest2
```

```
===== Menu =====
```

- 1: Set Priority
- 2: Change Priority
- 3: Stop process
- 4: Display Process Info
- 5: Display Process Hierarchy
- 6: Clear
- 7: Exit

```
=====
```

```
Enter the command: 2
```

```
----- Diplaying Processes -----
```

PID	TTY	TIME	CMD
1	?	00:00:00	init
26	?	00:16:23	bash
49	tty2	00:00:00	init
50	tty2	00:00:00	bash
66	tty2	00:13:07	bash
229	tty2	00:00:00	bash
230	tty2	00:00:00	ps

```
Enter the process id to change priority:
```

```
66
```

```
Enter priority value (Most -20 to least 19):
```

```
5
```

```
66 (process ID) old priority 0, new priority 5
```

kumarraj@kumarraj: ~/MCS\_172/LabTest2

===== Menu =====

- 1: Set Priority
- 2: Change Priority
- 3: Stop process
- 4: Display Process Info
- 5: Display Process Hierarchy
- 6: Clear
- 7: Exit

=====

Enter the command: 3

----- Diplaying Processes -----

PID	TTY	TIME	CMD
1	?	00:00:00	init
26	?	00:11:05	bash
49	tty2	00:00:00	init
50	tty2	00:00:00	bash
66	tty2	00:07:50	bash
216	tty2	00:00:44	bash
217	tty2	00:00:00	bash
225	tty2	00:00:00	ps

-----

Enter the process id to stop:

216

kumarraj@kumarraj: ~/MCS\_172/LabTest2

===== Menu =====

- 1: Set Priority
- 2: Change Priority
- 3: Stop process
- 4: Display Process Info
- 5: Display Process Hierarchy
- 6: Clear
- 7: Exit

=====

Enter the command: 4

----- Diplaying All Processes -----

F	S	UID	PID	PPID	C	PRI	NI	ADDR	SZ	WCHAN	TTY	TIME	CMD
0	S	0	1	0	0	80	0	-	2234	?	?	00:00:00	init
0	R	1000	26	1	85	80	0	-	4166	-	?	00:11:17	bash
0	S	0	49	1	0	80	0	-	2234	-	tty2	00:00:00	init
0	S	1000	50	49	0	80	0	-	4551	-	tty2	00:00:00	bash
0	R	1000	66	50	85	80	0	-	4166	-	tty2	00:08:01	bash
0	S	1000	217	50	0	80	0	-	4199	-	tty2	00:00:00	bash
0	R	1000	226	217	1	80	0	-	4642	-	tty2	00:00:00	ps

-----

kumarraj@kumarraj: ~/MCS\_172/LabTest2

===== Menu =====

- 1: Set Prority
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- 5: Display Process Hierarchy
- 6: Clear
- 7: Exit

=====

Enter the command: 5

----- Diplaying Processes Hier -----

```
init--bash
      |
      |--init--bash--bash
      |               |
      |               |--bash--pstree
      |
      |--{init}
```

-----

kumarraj@kumarraj: ~/MCS\_172/LabTest2

===== Menu =====

- 1: Set Prority
- 2: Change Priority
- 3: Stop process
- 4: Display Process Info
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- 6: Clear
- 7: Exit

=====

Enter the command: 7

[2]+ Killed bash ex.sh

kumarraj@kumarraj:~/MCS\_172/LabTest2\$

## Question 02:

kumarraj@kumarraj: ~/MCS\_172/LabTest2

kumarraj@kumarraj:~/MCS\_172/LabTest2\$ gcc q2.c

kumarraj@kumarraj:~/MCS\_172/LabTest2\$ ./a.out

Child Reading from parent, the message is -----> I am your parent and My Id is 210

Parent Reading from child, the message is -----> Hi parent, My ID is 896

kumarraj@kumarraj:~/MCS\_172/LabTest2\$