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OS OUTPUT

Ques1:
Output
Part 1

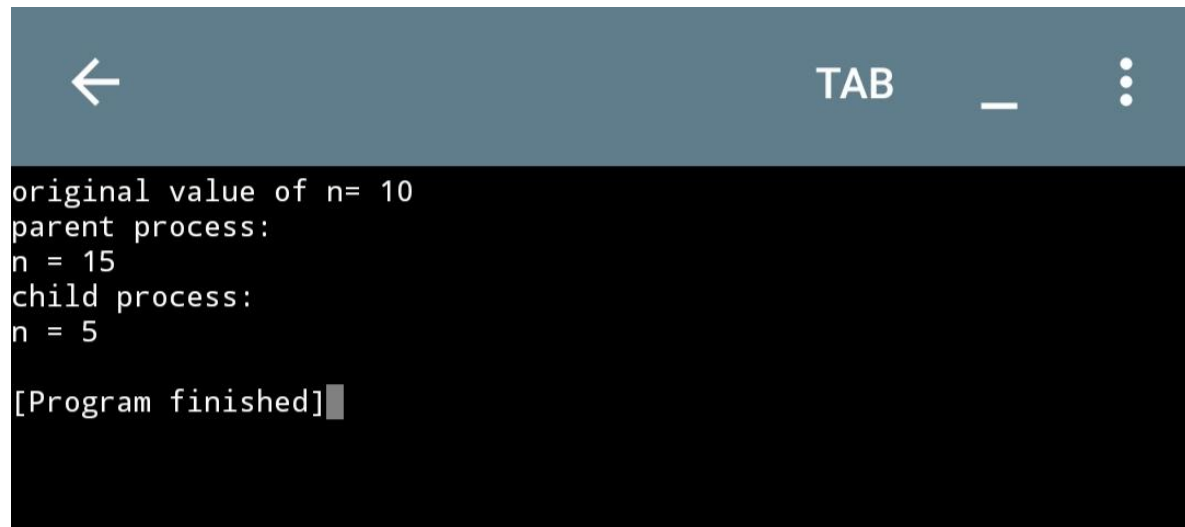
A screenshot of a terminal window with a dark background. The top bar is dark blue with a back arrow icon on the left, the text 'TAB' in the center, and a minus sign and three dots on the right. The terminal content shows two lines of output: 'pid = 14887' and 'pid = 0'. Below these, the text '[Program finished]' is displayed followed by a small grey rectangular cursor.

```
pid = 14887  
pid = 0  
[Program finished]
```

Ques1:

Output

Part 2

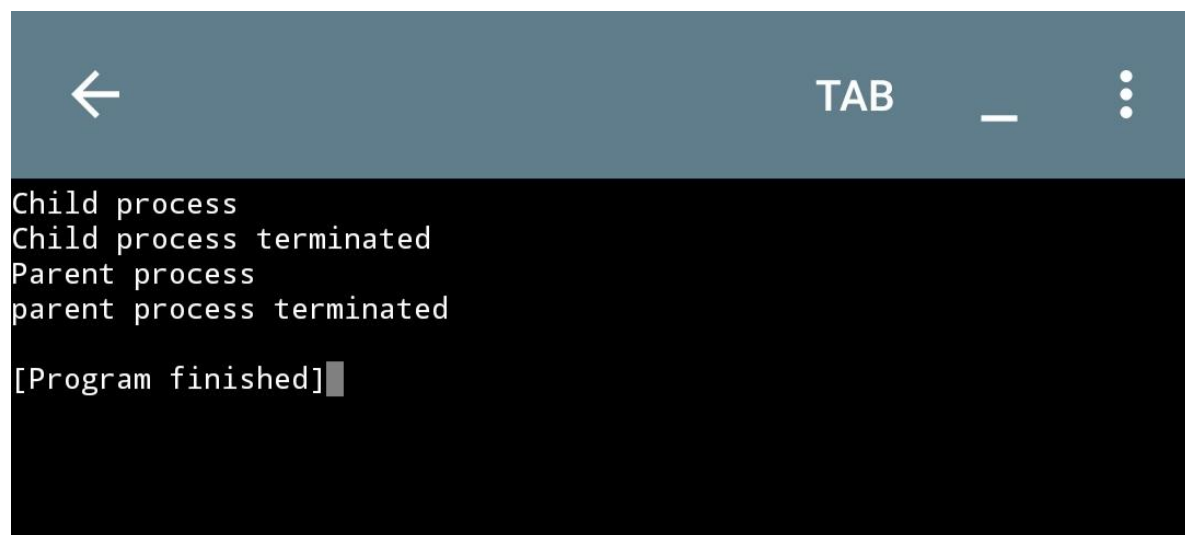
A terminal window with a dark background and a light blue header bar. The header bar contains a back arrow icon on the left, the text 'TAB' in the center, and a minus sign and three vertical dots on the right. The terminal text is as follows:

```
original value of n= 10  
parent process:  
n = 15  
child process:  
n = 5  
  
[Program finished]
```

Ques1:

Output

Part 3

A terminal window with a dark background and a light blue header bar. The header bar contains a back arrow icon on the left, the text 'TAB' in the center, and a minus sign and three vertical dots on the right. The terminal text is as follows:

```
Child process  
Child process terminated  
Parent process  
parent process terminated  
  
[Program finished]
```

Ques2:

Output

```
kali@kali:~/Desktop$ vi practical2.cpp
kali@kali:~/Desktop$ g++ practical2.cpp -o practical2
kali@kali:~/Desktop$ ./practical2

CPU type and model:
Intel(R) Core(TM) i5-9400F CPU @
Intel(R) Core(TM) i5-9400F CPU @
Kernel version:
5.5.0-kali2-amd64
Amount of time since the system was last booted:
12759.79
```

Ques3:

Output

```
kali@kali:~/Desktop$ vi practical3.cpp
kali@kali:~/Desktop$ g++ practical3.cpp -o practical3
kali@kali:~/Desktop$ ./practical3

CPU type and model:
Intel(R) Core(TM) i5-9400F CPU @
Intel(R) Core(TM) i5-9400F CPU @
Kernel version:
5.5.0-kali2-amd64
Amount of time since the system was last booted:
15065.01
The configured memory is;
2039488
Amount of free memory is:
197396
Amount of used memory is:
1842092
```

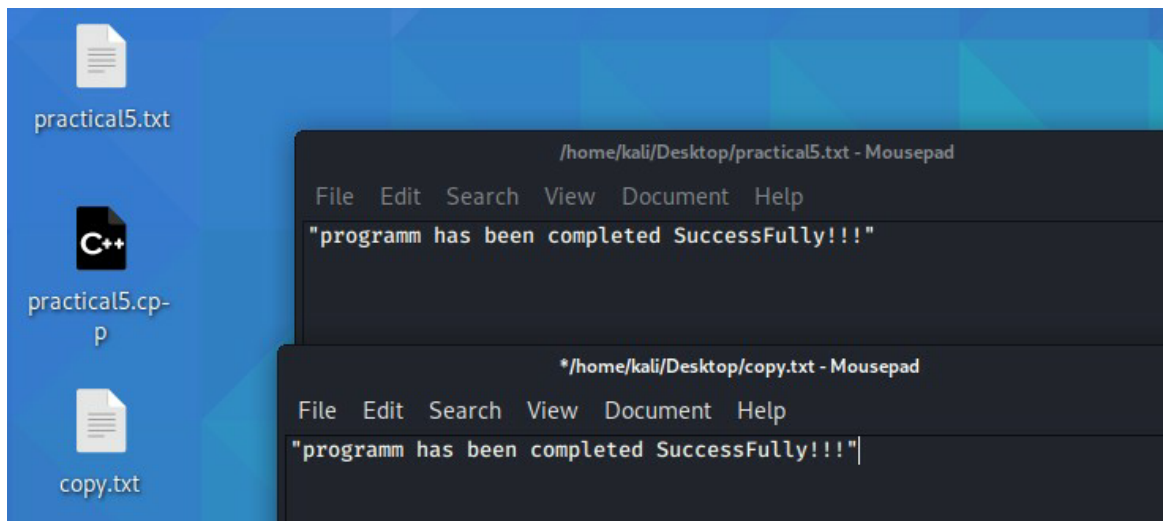
Ques4:

Output

```
magnagarvit@magnagarvit-VirtualBox:~$ gcc per_stat.c
magnagarvit@magnagarvit-VirtualBox:~$ ./a.out hello
File Name : hello
User id : 1000
hello is a regular file
permissions :-
Owner has read permission
Owner has write permission
Group has read permission
Group has write permission
Others has read permission
Others has write permission
magnagarvit@magnagarvit-VirtualBox:~$ ./a.out Videos
File Name : Videos
User id : 1000
Videos is a directory
permissions :-
Owner has read permission
Owner has write permission
Owner has execute permission
Group has read permission
Group has execute permission
Others has read permission
Others has execute permission
magnagarvit@magnagarvit-VirtualBox:~$
```

Ques5: Output

```
kali@kali:~/Desktop$ vi practical5.cpp
kali@kali:~/Desktop$ g++ practical5.cpp -o out
kali@kali:~/Desktop$ ./aout
bash: ./aout: No such file or directory
kali@kali:~/Desktop$ ./out
Copied Successfullykali@kali:~/Desktop$
```



Ques6:

Output

```
← TAB _ ⋮
Enter number of process:5
Enter Burst time for P1: 2
Enter Burst time for P2: 5
Enter Burst time for P3: 6
Enter Burst time for P4: 1
Enter Burst time for P5: 0
      Burst Time    Waiting Time    Turnaround Time
P2      2           0             2
P3      5           2             7
P4      6           7            13
P5      1          13            14
P6      0          14            14

Average wait time =7.2
Average turnaround time =10
[Program finished]
```

Ques7:

Output:

```
← TAB _ ⋮
Enter the number of processes: 3
Enter burst time for P1: 2
Enter burst time for P2: 5
Enter burst time for P3: 7
Enter time slice: 1.7
      Burst Time    Waiting Time    Turnaround Time
P1      2           2             4
P2      5           6            11
P3      7           7            14

Average waiting time= 5
Average turnaround time= 9.66667
[Program finished]
```

Ques8:

Output:

```
← TAB _ ⋮
Enter the number of processes: 4
Enter the burst time for process P1 :2
Enter the burst time for process P2 :4
Enter the burst time for process P3 :7
Enter the burst time for process P4 :9
      Burst Time    Waiting Time    Turnaround Time
P1      2           0             2
P2      4           2             6
P3      7           6            13
P4      9          13            22

Average waiting time= 5.25

Average turnaround time= 10.75

[Program finished]
```


Ques9:

Output:

```
← TAB _ ⋮
Enter number of processes: 3
Enter burst time for process P1 :2
Enter burst time for process P2 :1
Enter burst time for process P3 :5

Enter priority of P1 :1
Enter priority of P2 :3
Enter priority of P3 :2

```

	Burst Time	Waiting Time	Turnaround Time
P1	2	0	2
P3	5	2	7
P2	1	7	8

```

Average waiting time= 3
Average turnaround time= 5.66667
[Program finished]█
```

Ques10:

Output:

```
← TAB _ ⋮
Enter Total Number of Process:3
Enter Burst Time and Priority
P[1]
Burst Time:2
Priority:3
P[2]
Burst Time:2
Priority:1
P[3]
Burst Time:4
Priority:2
Process      Burst Time      Waiting Time      Turnaround Time
P[2]          2                0                 2
P[3]          4                2                 6
P[1]          2                6                 8
Average Waiting Time=2
Average Turnaround Time=5
[Program finished]
```

Ques11:

Output:

```
← TAB _ ⋮

Enter number of processes: 4

Enter burst time for process P1: 1
Enter arrival time for process P1: 3

Enter burst time for process P2: 4
Enter arrival time for process P2: 2

Enter burst time for process P3: 6
Enter arrival time for process P3: 3

Enter burst time for process P4: 7
Enter arrival time for process P4: 2

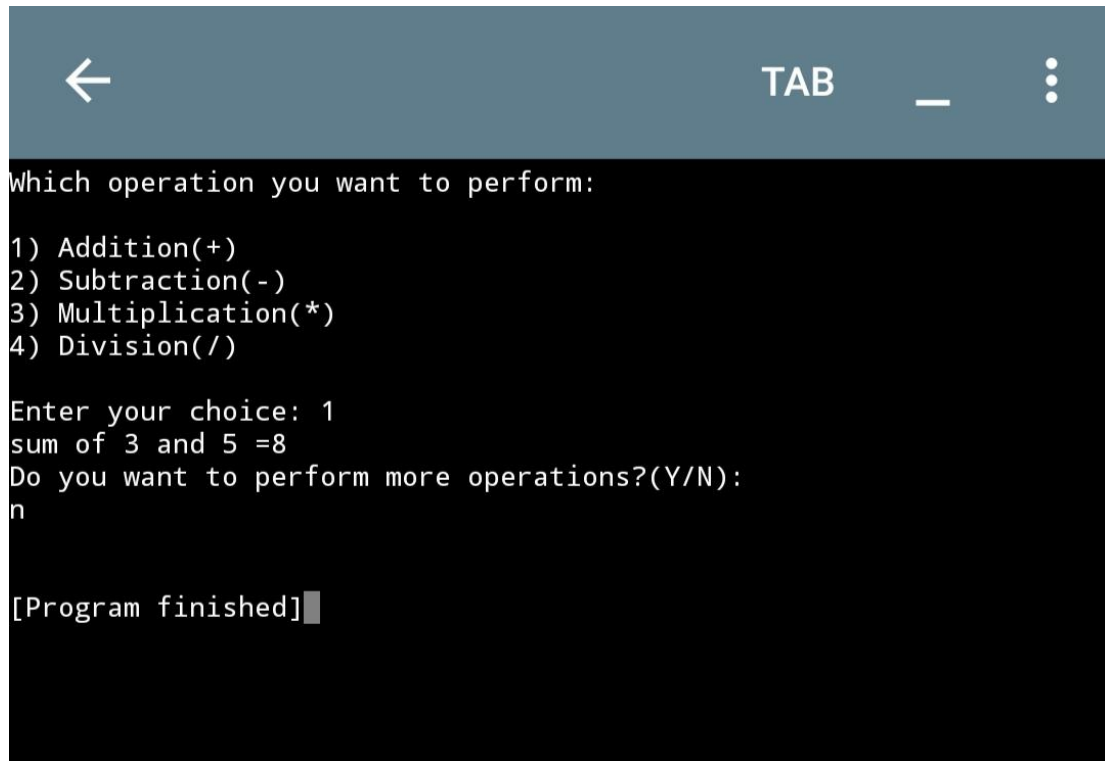
Process      Arrival Time  Burst Time  Completion Time  Waiting Time  Turn Around Time
1           3           6           4           12           2           4           7           53
4           2           7           20          11           18

Average Waiting Time: 4

[Program finished]
```

Ques 12:

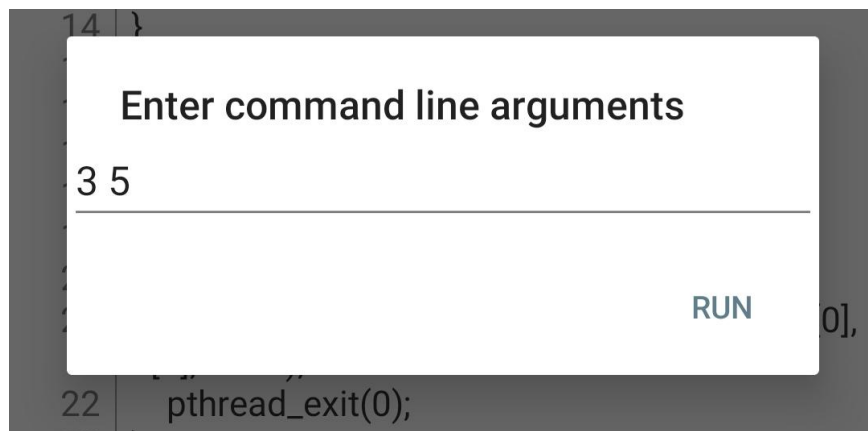
Output:



```
← TAB _ ⋮
Which operation you want to perform:
1) Addition(+)
2) Subtraction(-)
3) Multiplication(*)
4) Division(/)

Enter your choice: 1
sum of 3 and 5 =8
Do you want to perform more operations?(Y/N):
n

[Program finished]
```



```
14 }
    ...
22 pthread_exit(0);
23 }
```

Enter command line arguments

3 5

RUN

Ques 13 (a) :

Output:

```
← TAB _ ⋮
Enter number of process: 4
Enter size of process P1: 7
Enter size of process P2: 2
Enter size of process P3: 4
Enter size of process P4: 6
Enter number of memory blocks: 3
Enter size of memory block 1: 13
Enter size of memory block 2: 12
Enter size of memory block 3: 10
Process No  Process size  Block No
1             7             1
2             2             1
3             4             1
4             6             2

[Program finished]
```

Ques 13(b) :

Output:

```
← TAB _ ⋮
Enter number of process: 3
Enter size of process P1: 9
Enter size of process P2: 8
Enter size of process P3: 7
Enter number of memory blocks: 2
Enter size of memory block 1: 5
Enter size of memory block 2: 18
Process No.      Process size      Block no.
P1                9                18
P2                8                9
P3                7                Not Allocated
[Program finished]
```

Ques13(c) :

Output:

```
← TAB _ ⋮
Enter number of process: 4
Enter size of process P1: 57
Enter size of process P2: 23
Enter size of process P3: 34
Enter size of process P4: 34
Enter number of memory blocks: 3
Enter size of memory block 1: 100
Enter size of memory block 2: 50
Enter size of memory block 3: 70
Process No.      Process size      Block no.
P1                57                1
P2                23                3
P3                34                2
P4                34                3

[Program finished]
```