LAB #07 GIVEN TASKS IN CLASS



Spring 2023

CSE-204L Operating Systems Lab

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Section: C

"On my honor, as a student of the University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work"

Submitted to:

Engr. Madiha Sher (18 May 2023)

Department of Computer systems engineering University of Engineering and Technology, Peshawar

TASK 1

CODE:

```
task1.c
                                                                                              Save = a x
 1#include<stdio.h>
 2#include<stdlib.h>
 5int main(int argc,char* argv[]){
        int sum=0;
 8
        for(int i=1;i<argc;i++){</pre>
 9
           sum+=atoi(argv[i]);
10
11
12
        printf("Sum = %d\n",sum);
13
        return 0;
14}
```

Output:

```
muhammad@muhammad-VirtualBox:~/Desktop/OS LAB/LAB7$ ./task1.o 2 2 2 3 1

Sum = 10
muhammad@muhammad-VirtualBox:~/Desktop/OS LAB/LAB7$
```

TASK 2

CODE:

Output:

```
muhammad@muhammad-VirtualBox:~/Desktop/OS LAB/LAB7$ ./task2.o

Sum = 10

muhammad@muhammad-VirtualBox:~/Desktop/OS LAB/LAB7$
```

TASK 3

CODE:

```
task3.c
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                                                                                                Save ≡ □ Ø ×
 1#include<stdio.h>
 2#include<stdlib.h>
 3#include<unistd.h>
 4#include<sys/wait.h>
 7int main(int argc , char *argv[]){
 8
9 for(int i=1;i<argc;i++){
10
           int pid=fork();
           if(pid== 0){
printf("Child Process\n");
11
12
13
           execlp(argv[i],argv[i],NULL);}
14
15
16
           for(int i =1;i<argc;i++){</pre>
17
           int r =wait(NULL);
18
19
20
22 return 0;}
```

Output:

```
muhammad@muhammad-VirtualBox:~/Desktop/OS LAB/LAB7$ ^C
muhammad@muhammad-VirtualBox:~/Desktop/OS LAB/LAB7$ ./task3.o ps -l
Child Process
Child Process
PID TTY TIME CMD
4685 pts/0 00:00:00 bash
4711 pts/0 00:00:00 task3.o
4712 pts/0 00:00:00 ps
muhammad@muhammad-VirtualBox:~/Desktop/OS LAB/LAB7$
```