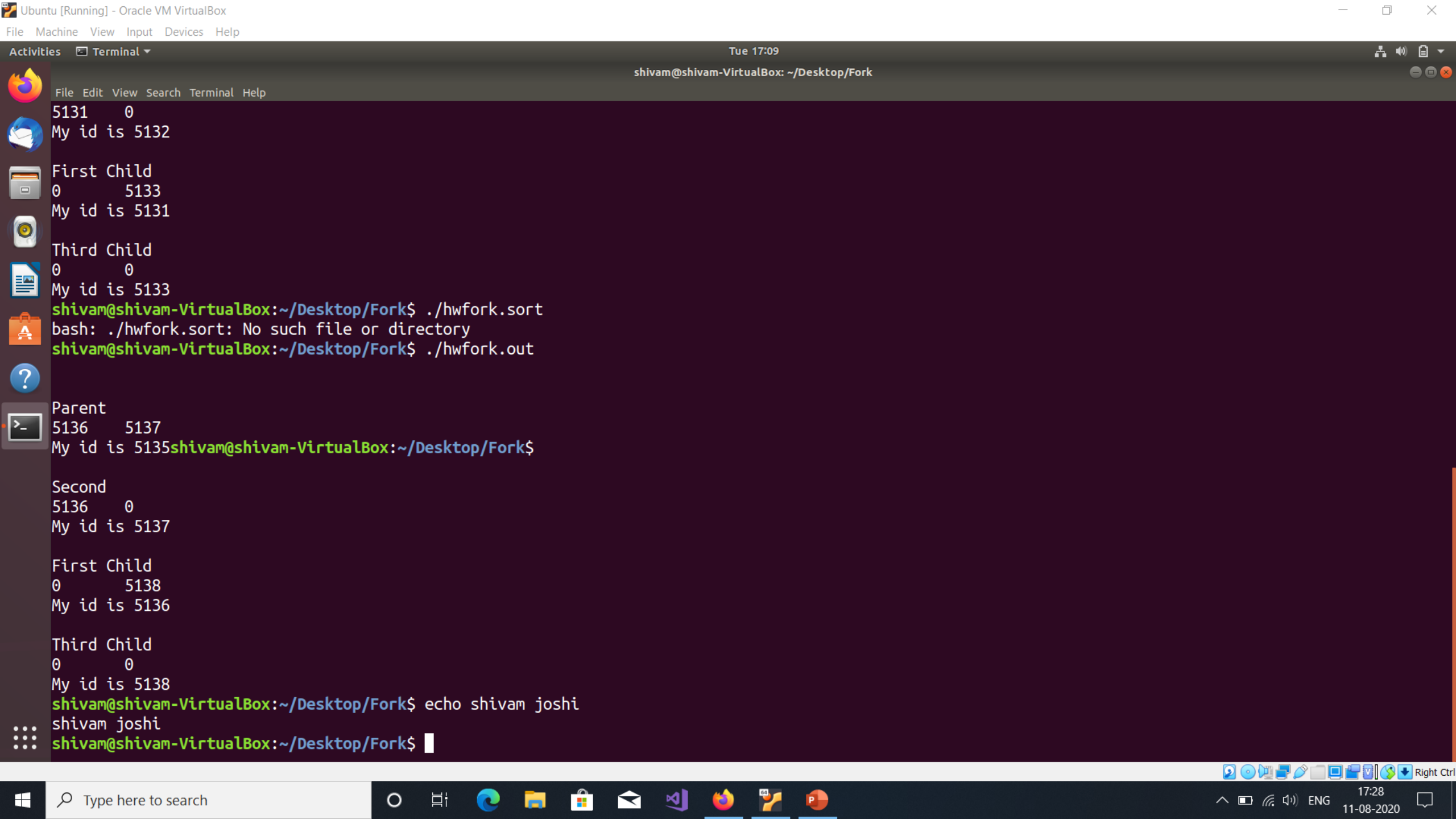


Question-1

Part-1

Here the Program is executed without usage of wait
Please click link to see the code

[https://github.com/shivamjoshi22/Homework Assignment Of SP/blob/master/Que1.c](https://github.com/shivamjoshi22/Homework_Assignment_Of_SP/blob/master/Que1.c)



Question-1

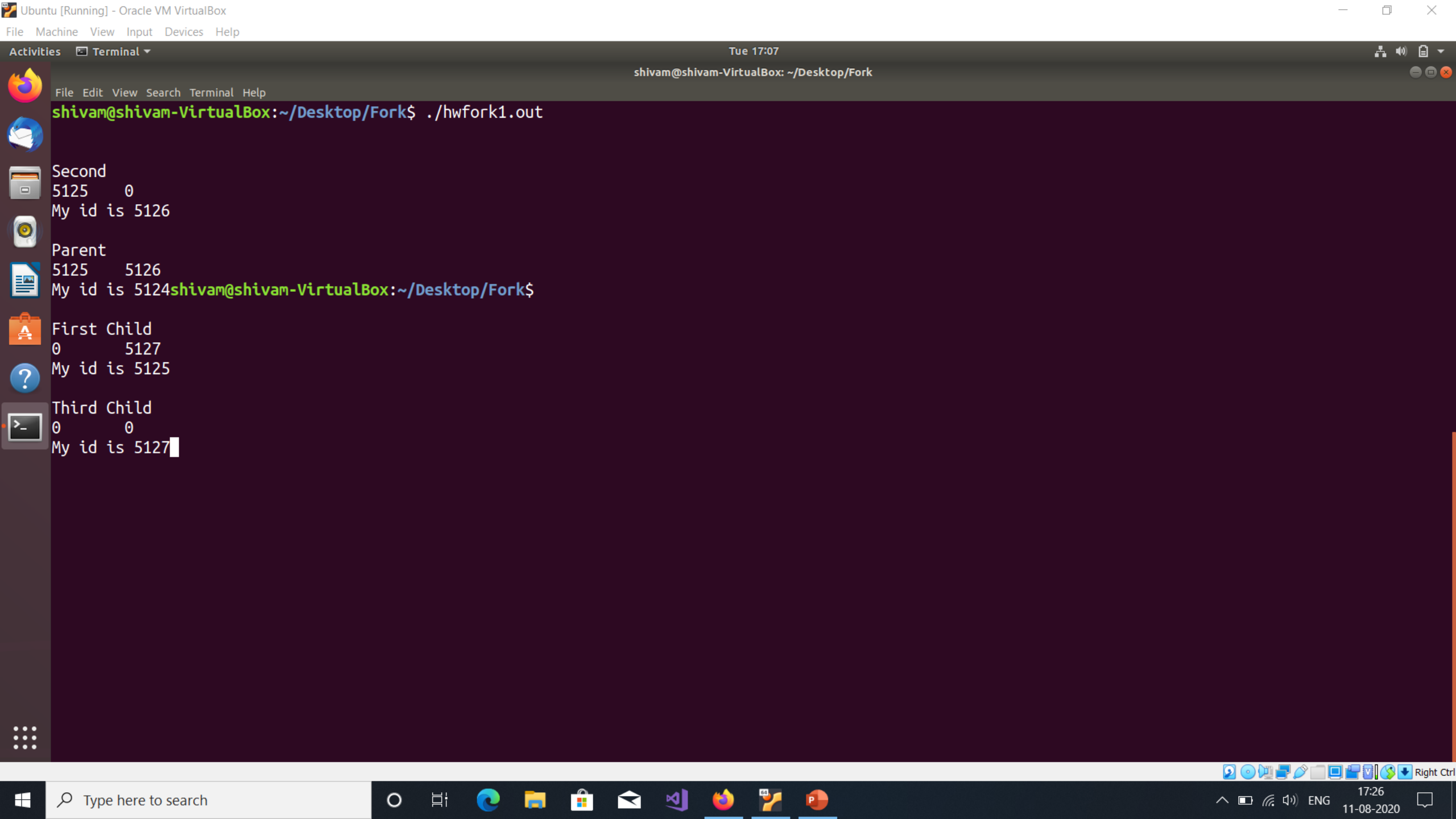
Part-2a

The difference between without wait and using wait function call is we can obtain desired output using wait function.

Without wait function the execution of output is completely random

Please click the link to see the code

https://github.com/shivamjoshi22/Homework_Assignment_Of_SP/blob/master/Que1a.c



Question-1

Part-2b

Please click the link for code

https://github.com/shivamjoshi22/Homework_Assignment_Of_SP/blob/master/Q1b.c



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shivam@shivam-VirtualBox:~/Desktop/Fork\$./hwfork2.out

First Child

0 5110

My id is 5109

Third Child

0 0

My id is 5110

Second

5109 0

My id is 5111

Parent

5109 5111

My id is 5108shivam@shivam-VirtualBox:~/Desktop/Fork\$

shivam@shivam-VirtualBox:~/Desktop/Fork\$ echo shivam joshi

shivam joshi

shivam@shivam-VirtualBox:~/Desktop/Fork\$



Type here to search



Question-2

Please click the link for code

https://github.com/shivamjoshi22/Homework_Assignment_Of_SP/blob/master/Q2.c

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shivam@shivam-VirtualBox:~/Desktop/Fork\$./hwforksort.out

unsorted nos are : 3 1 5 10 9 4 6 2 8 7

sorted nos are : 1 2 3 4 5 6 7 8 9 10 shivam@shivam-VirtualBox:~/Desktop/Fork\$

shivam@shivam-VirtualBox:~/Desktop/Fork\$ echo shivam joshi

shivam joshi

shivam@shivam-VirtualBox:~/Desktop/Fork\$



Type here to search



ENG

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11-08-2020

Question-3

```
//DEMO OF EXECL
#include<stdio.h>
#include<sys/types.h>
#include<sys/wait.h>
#include<unistd.h>

int main()
{
    int pid = fork();
    if (pid == 0)
    {
        printf("child process");
        execl("/bin/ps","e",NULL);
        printf("\n Error occured as Function
returned -1");// it wont get executed unless some error occurs
    }

    return 0;
}
```

File Edit View Search Terminal Help

shivam@shivam-VirtualBox:~/Desktop/Fork\$./q3a.out

shivam@shivam-VirtualBox:~/Desktop/Fork\$

4801 pts/0 00:00:00 bash

5084 pts/0 00:00:00 ps

shivam@shivam-VirtualBox:~/Desktop/Fork\$ echo Shivam joshi

Shivam joshi

shivam@shivam-VirtualBox:~/Desktop/Fork\$

```
//DEMO OF EXECV
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
void main()
{
    char *arr[]={"/q3a.out",NULL};
    execv(arr[0],arr);
    printf("\nerror");
}
```

```
//FILE q3a.c
#include<stdio.h>
#include<sys/types.h>
#include<sys/wait.h>
#include<unistd.h>

int main()
{
    int pid = fork();
    if (pid == 0)
    {
        printf("child process");
        execl("/bin/ps","e",NULL);
        printf("\n Error occured as Function
returned -1");// it wont get executed unless some error occurs
    }

    return 0;
}
```


File Edit View Search Terminal Help

shivam@shivam-VirtualBox:~/Desktop/Fork\$./q3b.out

shivam@shivam-VirtualBox:~/Desktop/Fork\$

4801 pts/0 00:00:00 bash

5088 pts/0 00:00:00 ps

shivam@shivam-VirtualBox:~/Desktop/Fork\$ echo shivam joshi

shivam joshi

shivam@shivam-VirtualBox:~/Desktop/Fork\$

```
//DEMO OF EXCLE
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
void main()
{
    char *arr[]={"/q3a.out",NULL};
    execl(arr[0],"",NULL,arr);
    printf("\nerror");

}
```

File Edit View Search Terminal Help

shivam@shivam-VirtualBox:~/Desktop/Fork\$./q3c.out

shivam@shivam-VirtualBox:~/Desktop/Fork\$

4801 pts/0 00:00:00 bash

5091 pts/0 00:00:00 ps

shivam@shivam-VirtualBox:~/Desktop/Fork\$ echo shivam joshi

shivam joshi

shivam@shivam-VirtualBox:~/Desktop/Fork\$

