<u>Lab Assignment - 6</u> (Operating Systems Practice)

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D first, we take input until a new time is encounted. and then the string is sent to a child and the Asich the sur is calculated before sent sending to the parent. For converting an integer to character array are use the sprint.

2) We imput the string with integers and space separated.

After applies the

When all which are space squared and space squared After splitting the numbers and push it into a vertex we will sent it, after that we will sent it to child before the same process happons again.

Used those turnetions strate are and evaluation for the processing the input.

3) Here, we first find the number of digits for me a number and then find the amethory number by adding the powers of all the individual digits. The final sum is then compared to the actual number, if it matches then it is an aim spray number.

```
kuries@Beast:~/.../osp/lab6$ g++ q1.cpp && ./a.out
Enter the input string: aAb
Received the string (in child)

Total sum of the ascii (in parent)
260
kuries@Beast:~/.../osp/lab6$ ■
```

2)

```
kuries@Beast:~/.../osp/lab6$ g++ q2.cpp && ./a.out
Enter the input string: 1 3 2 6 4 5
Printing from child in ascending order
1 2 3 4 5 6
Printing from parent in descending order
6 5 4 3 2 1
kuries@Beast:~/.../osp/lab6$
```

3)

```
PROBLEMS
          OUTPUT
                   TERMINAL
                             DEBUG CONSOLE
kuries@Beast:~/.../osp/lab6$ g++ g3.cpp && ./a.out
Enter numbers in the array (Parent process)
66
370
371
54
Checking for Armstrong numbers (child process)
66: 0
370: 1
371: 1
54: 0
39: 0
```

the me send it to the shared remory and modifies the string and modifies the string and modifies the string that the process is complete. The second element has the action conserver to or !!

4)

| kuries@Beast:~/.../osp/lab6\$./p1 | kuries@Beast:~/.../osp/lab6\$./p2 | kuries@Beast:~/.../osp/lab6\$./p2 | kuries@Beast:~/.../osp/lab6\$./p2 | kuries@Beast:~/.../osp/lab6\$ | It is a pallindrome | kuries@Beast:~/.../osp/lab6\$ | |