

PROJECT 1

REPORT

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PART 1

For this part, for each command we search the environment and find the corresponding path to execute.

Shell is working as expected. (We use `execv()` each time.)

PART 2

`history`, `!!` and `!` work as expected.

PART 3

Every requirement is satisfied for the first and second question.

The new command: `whatisnew`

- It displays the news in selected category. Newyork Times webpage will be opened in bash.
- When `whatisnew` is typed without category name, it lists the categories.

```
shelldon>whatisnew
World
U.S.
Politics
N.Y.
Business
Opinion
Tech
Science
Health
Sports
Arts
Books
Style
Food
Travel
Magazine
T Magazine
Real Estate
Video
```

- When `whatisnew` is typed with a category name, in this case `Science`, it displays the news.

```
Sections
SEARCH
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Science

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Science

1. Climate
2. Space & Cosmos
3. Health
4. Trilobites
5. Sciencetake
6. Out There

Highlights

1. Photo[merlin_152]CreditRobert DePalma/University of Kansas
Fossil Site Reveals Day That Meteor Hit Earth and, Maybe, Wiped Out Dinosaurs
A jumble of entombed plants and creatures offers a vivid glimpse of the apocalypse that all but ended life 66 million years ago.
By William J. Broad and Kenneth Chang

2. Photo[29TB-VOLCA]CreditMartin Bernetti/Agence France-Presse – Getty Images
Trilobites
Volcanoes! Lightning! And Radioactive Gas, Too
Studying radon's role in the electrification of plumes above volcanoes could help people anticipate the damage resulting from eruptions,
scientists say.
By Robin George Andrews
```

- To quit, we need to press “q” first and after that press “y”.

PART 4

- Before `shelly`, we need to do “`sudo make`”.
- Make file is changed due to name change.
- Before using `shelly`, we need to be sure that no module is loaded.
- `our_simple.c` has skeleton provided. Instead of `p`, we have `processID` as the variable which will be used as a parameter. It is initially `-1` since no PID can be `-1`.
- You need to do “`sudo dmesg | cat`” outside of the `shelly`.