Process Assignment – 2

Team Emertxe

WAP to avoid a child become zombie with out blocking the parent.

Assignment - 2

Requirements

- ✓ Create a child process avoid it become a zombie.

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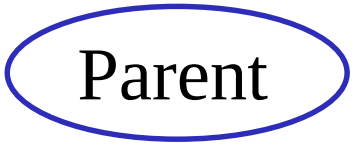

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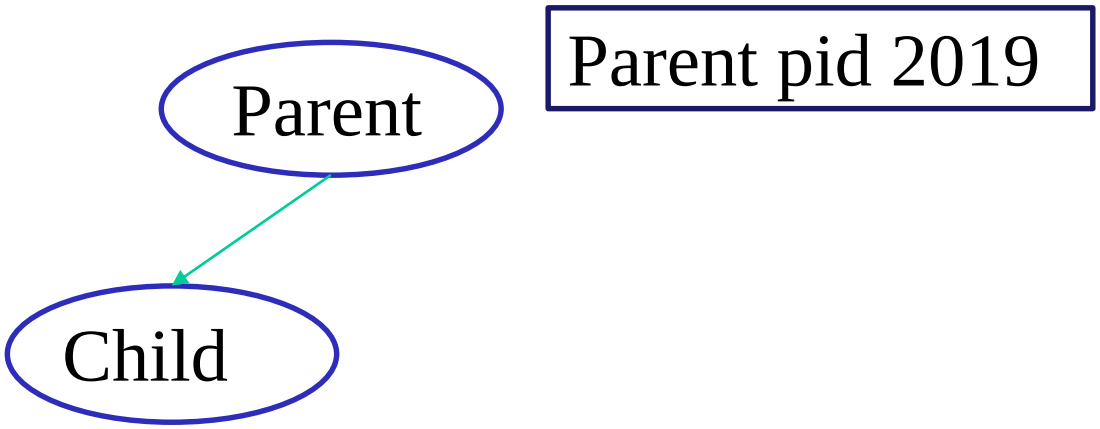

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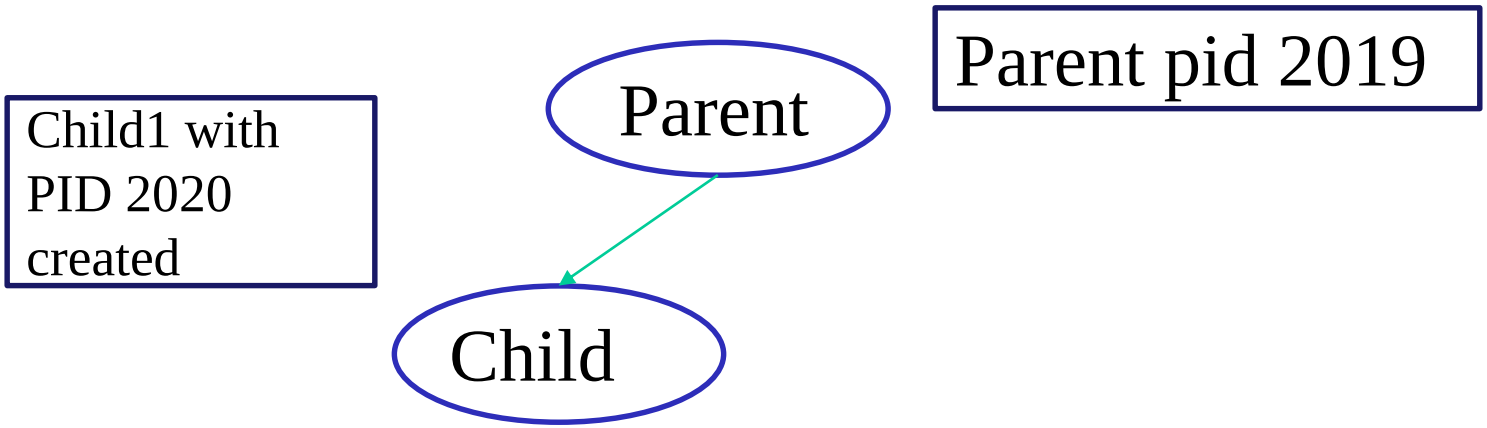

Assignment - 2

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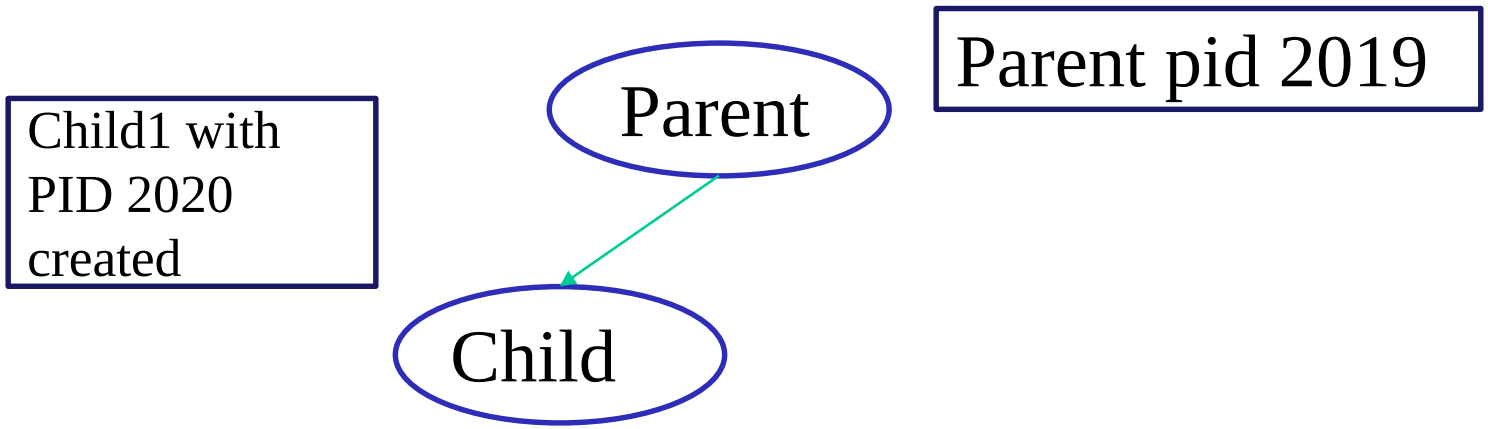
- ✓ To avoid zombie we need to call wait(),



Assignment - 2

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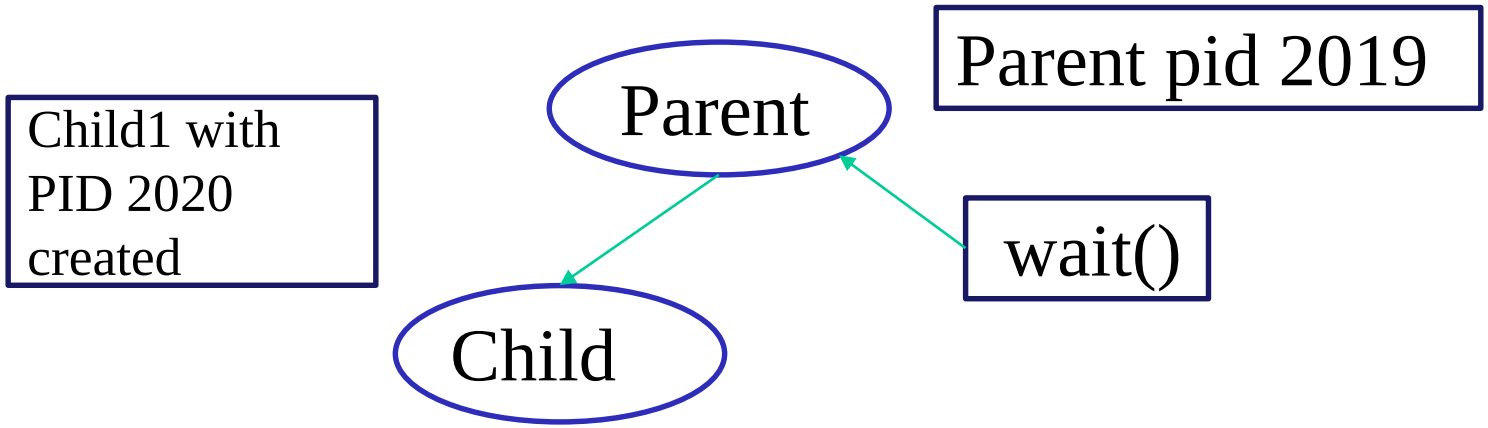
- ✓ To avoid zombie we need to call wait(), but this block parent until child terminates.



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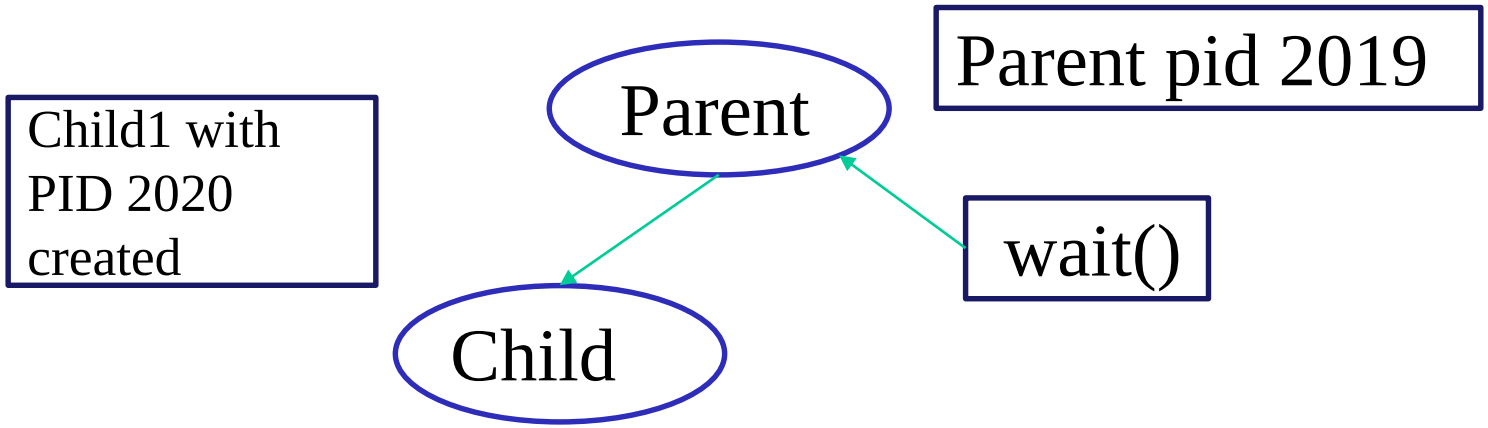

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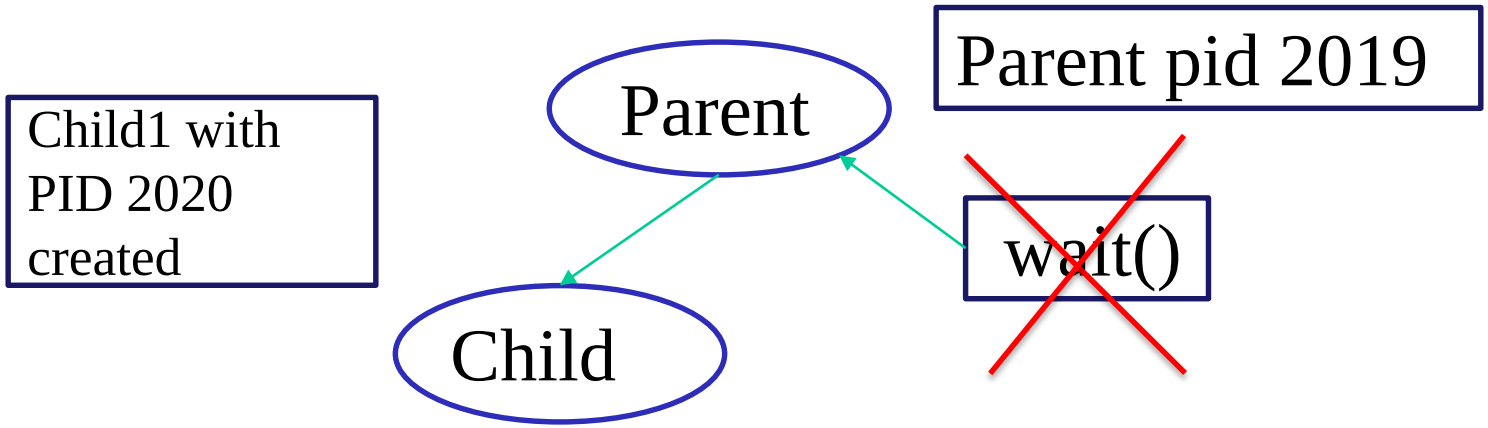

Assignment - 2

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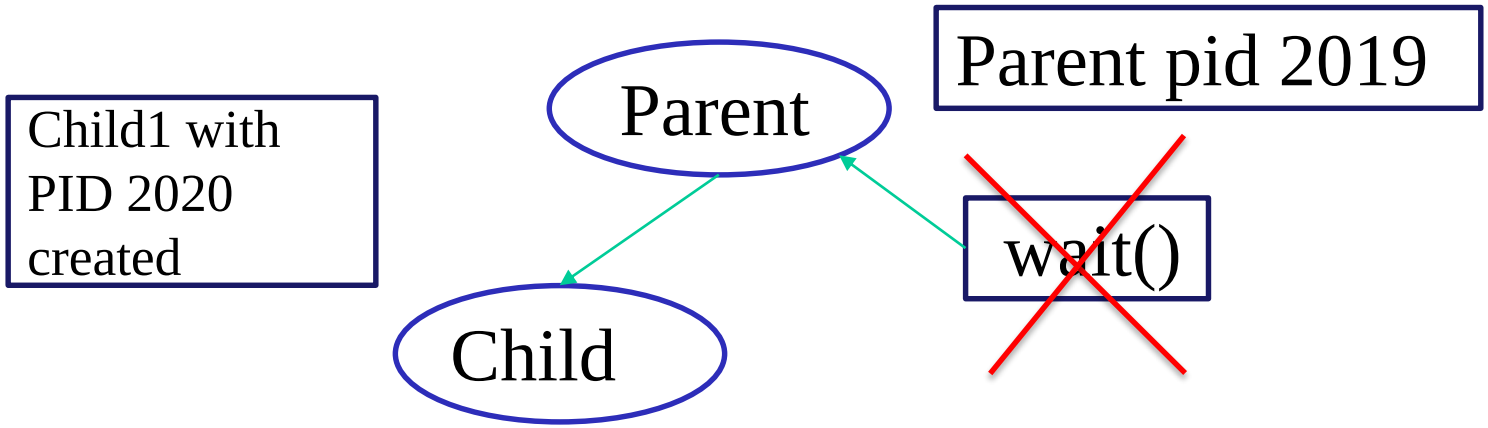
- ✓ So we need to use waitpid() with proper arguments (Read man page).



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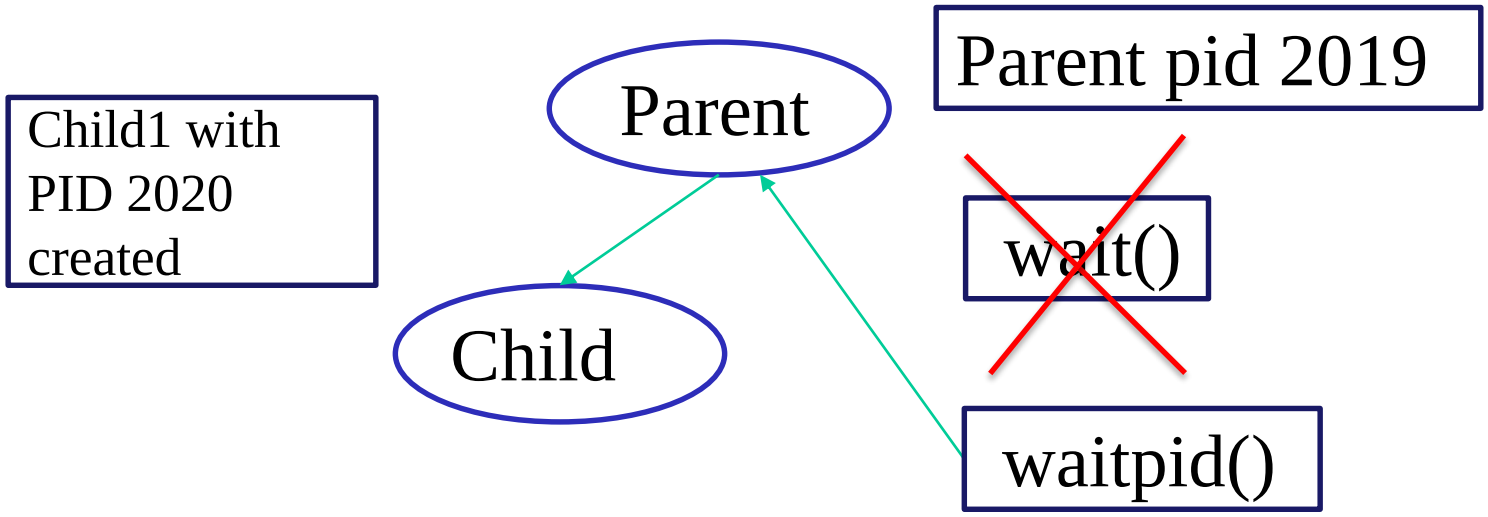

Assignment - 2

Requirements

- ✓ When child is working parent has to continuously print some message.
- ✓ When ever child terminates parent has to print child terminated and print exit status of child process.

Assignment - 2

Sample execution

1. ./nonblock_wait

   A child created with pid 2020

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   parent is running
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   Child 2020 terminated normally with exit status 0

Assignment - 2

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1. ./nonblock_wait

   A child created with pid 2020

   parent is running
   parent is running
   parent is running
   Child 2020 terminated normally with exit status 0

   parent terminating

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Pre-requisites

- ✓ Knowledge about system calls, How to read and understand ‘man pages’.

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Objective

- ✓ To understand different states of a process.