



**Congratulations! You passed!**

TO PASS 80% or higher

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## Practice Quiz: Python Subprocesses

TOTAL POINTS 5

1. What type of object does a run function return?

1 / 1 point

- ☐ capture\_output
- ☒ CompletedProcess
- ☐ returncode
- ☐ stdout



**Correct**

Awesome! This object includes information related to the execution of a command.

2. How can you change the current working directory where a command will be executed?

1 / 1 point

- ☐ Use the env parameter.
- ☐ Use the shell parameter.
- ☒ Use the cwd parameter.
- ☐ Use the capture\_output parameter.



**Correct**

Right on! This will change the current working directory where the command will be executed.

3. When a child process is run using the subprocess module, which of the following are true? (check all that apply)

1 / 1 point

- ☒ The child process is run in a secondary environment.



**Correct**

Nice work! To run the external command, a secondary environment is created for the child subprocess, where the command is executed.

- ☒ The parent process is blocked while the child process finishes.



**Correct**

Excellent! While the parent process is waiting on the subprocess to finish, it's blocked, meaning the parent can't do any work until the child finishes.

- ☐ The parent process and child process both run simultaneously.

- ☒ Control is returned to the parent process when the child process ends.



**Correct**

Right on! After the external command completes its work, the child process exits, and the flow of control returns to the parent.

4. When using the `run` command of the subprocess module, what parameter, when set to True, allows us to store the output of a system command?

1 / 1 point

- ☐ cwd
- ☒ capture\_output
- ☐ timeout
- ☐ shell



**Correct**

Excellent! The capture\_output parameter allows us to get and store the output of the system command we're using.

5. What does the `env` method of `os.environ` do?

3. What does the copy method of os.environ do?

1 / 1 point

- ☒ Creates a new dictionary of environment variables
- ☐ Runs a second instance of an environment
- ☐ Joins two strings
- ☐ Removes a file from a directory



**Correct**

Nice work! The copy method of os.environ makes a new copy of the dictionary containing the environment variables, making modification easier.