Session 2 - Quiz

- Due Oct 27 at 11:30pm
- Points 200
- Questions 39
- Available Oct 19 at 12pm - Oct 27 at 11:30pm
- Time Limit 30 Minutes
- Allowed Attempts Unlimited

Instructions

1. You have 20 questions related to Git and 20 questions related to Python.
2. You have 30 minutes to attempt the quiz.
3. Since these are all fact or command-based, this quiz will not be discussed during the session.
4. On the Python Side, there are a few hard and medium questions
5. When you get them wrong., learn about them online, and attempt the quiz a second time, and third and fourth and...
6. You have infinite attempts
7. The objective is to score 100% in as many attempts as required. If you score less than 100% (200 pts), then your scores will be made zero manually after the deadline!
8. You can use ChatGPT, but few questions have code in images, so all the best copy-pasting 😅
9. Answers will be shown after the deadline!
10. Have fun! :)

[Take the Quiz Again]

Attempt History

	Attempt	Time	Score
KEPT	**Attempt 5**	6 minutes	200 out of 200
LATEST	**Attempt 5**	6 minutes	200 out of 200
	Attempt 4	7 minutes	190 out of 200
	Attempt 3	15 minutes	182.5 out of 200
	Attempt 2	16 minutes	187.5 out of 200
	Attempt 1	20 minutes	165 out of 200

Score for this attempt: 200 out of 200

Submitted Oct 27 at 11:34am

This attempt took 6 minutes.

Question 1

5 / 5 pts

What does the git clone command do?

○ It creates a new branch in the repository.

Correct!

◉ It clones a repository into a newly created directory.

○ It updates the local repository with changes from the remote.

○ It makes a copy of the local repository.

⋮⋮

Question 2

5 / 5 pts

Which of the following commands will show the status of your current Git repository?

○ git log

Correct!

◉ git status

○ git show

○ git diff

⋮⋮

Question 3

5 / 5 pts

What is the purpose of the git pull command?

○ To create a new branch.

○ To list all the branches in the repository.

○ To send changes to the remote repository.

Correct!

◉ To fetch and merge changes from the remote repository to the local repository.

⋮⋮

Question 4

5 / 5 pts

What does the git commit command do?

○ It stages changes for commit.

○ It sends changes to the remote repository.

○ It changes the active branch.

Correct!

◉ It records changes to the repository.

⋮⋮

Question 5

5 / 5 pts

Which of the following commands can be used to create a new branch in Git?

☐   git merge <branch-name>

Correct!

☑   git checkout -b <branch-name>

☐   git init <branch-name>

Correct!

☑   git branch <branch-name>

⋮⋮

Question 6

5 / 5 pts

How can you view the commit history of your repository?

☐   git status

☐   git commit

☐   git branch

Correct!

☑   git log

⋮⋮

Question 7

5 / 5 pts

What does the git push command do?

Correct!

◉   It uploads the local branch commits to the remote repository.

◯   It creates a new branch.

◯   It downloads changes from the remote repository.

◯   It merges branches.

⋮⋮

Question 8

5 / 5 pts

Which of the following commands will discard changes in the working directory?

☐   git clean

☐   git commit

☐   git reset

Correct!

☑   git checkout -- <file>

⋮⋮

Question 9

5 / 5 pts

What is the correct sequence of commands to send local commits to a remote repository?

Correct!

◉ git add → git commit → git push

○ git commit → git push

○ git commit → git add → git push

○ git add → git push

Question 10

5 / 5 pts

Which of the following statements about the git merge and git rebase commands are true?

☐ git merge is used to stage changes

Correct!

☑ git rebase rewrite the history by placing commits from one branch onto another branch.

Correct!

☑ git merge preserves the history of the feature branch as it is.

☐ git rebase creates a new commit for each commit in the feature branch on the base branch.

Question 11

5 / 5 pts

Which command is used to view the changes within a git repository that haven't yet been committed?

Correct!

◉ git diff

○ git log

○ git status

○ git show

Question 12

5 / 5 pts

What is the purpose of the .gitignore file in a Git repository?

○ To list the commit history of the repository.

○ To set configuration options for the repository.

Correct!

◉ To ignore changes in certain files or directories from being tracked.

○ To temporarily hide changes in tracked files.

Question 13

5 / 5 pts

Which of the following commands will switch to an existing branch called feature-branch?

○ git init feature-branch

○ git merge feature-branch

Correct!

◉ git checkout feature-branch

○ git branch feature-branch

⋮

Question 14

5 / 5 pts

What does the git stash command do?

○ It deletes all uncommitted changes in the working directory.

○ It shows the status of the working directory and staging area.

Correct!

◉ It temporarily stores all the modified tracked files.

○ It permanently stores all the modified tracked files.

⋮

Question 15

5 / 5 pts

Which of the following git commands shows the content of a particular commit?

○ git log

○ git diff

Correct!

◉ git show

○ git status

⋮

Question 16

5 / 5 pts

In Git, what is the result of the git merge --no-ff command?

○ It performs a fast-forward merge if possible.

○ It rejects non-fast-forward merges.

Correct!

◉ It creates a new commit even if the merge resolves as a fast-forward.

○ It aborts the merge process.

⋮

Question 17

5 / 5 pts

Which command is used to update a local repository to the newest commit from a remote repository?

Correct!

☑ git pull

☐ git commit

Correct!

☑ git fetch followed by git merge

☐ git push

⋮⋮

Question 18

5 / 5 pts

What is the function of the git branch -d <branch-name> command?

Correct!

◉ It deletes the branch named <branch-name>, but only if it has been fully merged.

○ It forcefully deletes the branch named <branch-name>

○ It lists all branches that contain the branch named <branch-name>.

○ It creates a new branch with the name <branch-name>.

⋮⋮

Question 19

5 / 5 pts

What does the git reset --hard command do?

○ It stashes the changes in the working directory.

○ It resets only the staging area to match the most recent commit.

Correct!

◉ It resets the staging area and the working directory to match the most recent commit.

○ It undoes the last commit, preserving the changes in the working directory.

⋮⋮

Question 20

10 / 10 pts

Which of the following are true about the git fetch command?

Correct!

☑ It downloads commits, files, and refs from a remote repository into your local repo.

☐ It automatically merges the fetched changes into your current branch.

Correct!

☑ It is a safer alternative to git pull as it doesn't change your working directory.

☐ It shows the changes between the fetched content and the current content.

⋮⋮

Question 21

5 / 5 pts

What is the correct way to create a function in Python?

Correct!

- ◉ def myFunc():
- ○ function: myFunc()
- ○ function myFunc():
- ○ create myFunc():

Question 22

5 / 5 pts

Which of the following data types does not allow duplicate values in Python?

- ○ Tuple

Correct!

- ◉ Set
- ○ List
- ○ Dictionary

Question 23

5 / 5 pts

How do you insert comments in Python code?

Correct!

- ◉ # This is a comment
- ○ /* This is a comment */
- ○ <!-- This is a comment -->
- ○ // This is a comment

Question 24

5 / 5 pts

Which operator is used for exponentiation in Python?

Correct!

- ◉ **
- ○ %%
- ○ ^
- ○ exp()

Question 25

5 / 5 pts

What will be the output of the following code: print(type(3.5))?

- ○ <class 'string'>

○ <class 'number'>

○ <class 'int'>

Correct!

⦿ <class 'float'>

⋮

Question 26

5 / 5 pts

Which of the following is the correct way to handle exceptions in Python?

Correct!

⦿ except Exception as e:

○ exception(Exception, e):

○ catch Exception as e:

○ handle Exception e:

⋮

Question 27

5 / 5 pts

How can you generate a list of numbers from 1 to 10 using list comprehension?

Correct!

⦿ [x for x in range(1, 11)]

○ [1:10]

○ [x for x in range(10)]

○ list(1, 11)

⋮

Question 28

5 / 5 pts

Which module in Python can be used for random number generation?

○ rnd

Correct!

⦿ random

○ math

○ num

⋮

Question 29

5 / 5 pts

What is the output of print("Hello"[::-1])?

○ hello

Correct!

○ olleH

○ Hello

○ Error

Question 30

5 / 5 pts

What is the output of the following code snippet:

```python
list = ['a', 'b', 'c', 'd']
print("".join(list[::2]))
```

○ bd

○ abcd

○ dcba

Correct!

◉ ac

Question 31

5 / 5 pts

What is the purpose of the __init__ method in Python classes?

○ To inherit from another class.

Correct!

◉ To initialize the class attributes when an object is created.

○ To perform garbage collection.

○ To declare a class.

Question 32

5 / 5 pts

Which keyword is used for function annotations in Python?

○ func

○ annotate

○ def

Correct!

◉ ->

Question 33

5 / 5 pts

What is the correct way to decorate a function in Python?

○ decorator():

○ @define decorator

Correct!

◉ @decorator

○ def decorator(func):

⠿

Question 34

5 / 5 pts

What will the following code output: print(bool(None))?

○ 0

○ True

Correct!

◉ False

○ 1

⠿

Question 35

5 / 5 pts

How do you declare a variable as private in a Python class?

Correct!

◉ By starting its name with an underscore _variable.

○ By declaring it inside a private method.

○ Using the private keyword.

○ By starting its name with two underscores __variable.

⠿

Question 36

5 / 5 pts

Which of the following is a correct syntax to check if a is greater than b in Python?

○ if a > b print("a is greater than b")

○ print("a is greater than b") if a > b

○ print("a is greater than b") : if a > b

Correct!

◉ if a > b: print("a is greater than b")

⠿

Question 37

5 / 5 pts

How is memory management handled in Python?

○ Memory management is done manually.

Correct!

◉ Using reference counting and garbage collection.

○ Using stack allocation.

○ Using static memory allocation.

Question 38

5 / 5 pts

Which built-in Python function returns the length of an object?

○ count()

Correct!

◉ len()

○ length()

○ size()

Question 39

5 / 5 pts

What is the output of the following code:

```python
x = ["apple", "banana"]
y = ["apple", "banana"]
z = x
print(x is z)
print(x is y)
print(x == y)
```

Correct!

◉ True False True

○ True True True

○ True True False

○ False True True

Quiz Score: 200 out of 200