Indicates readiness to proceed with testing

ls \${{ github.workspace }}

- · Names this step for clarity
- The enables multi-line commands (though only one is used here)
- · Lists all files in the workspace directory

• Prints the current status of the job using the job.status context variable

This workflow is essentially a demo that shows various features of GitHub Actions, including context variables, steps, actions, and workspace manipulation.

C How do the \${{}} context thing work exactly?

The \${{}} syntax in GitHub Actions is called an "expression" and it allows you to access contextual information and use some basic programming functionality. Here's a detailed

1. Basic Context Access:

```
${{ github.actor }}
2. Data Types Supported:
• Strings: ${{ 'hello' }}
• Numbers: ${{ 123 }}
```

- Booleans: \${{ true }}
- Null
- Objects: \${{ {key: 'value'} }}
- 3. Operators You Can Use:

4. Functions:

```
${{ endsWith('hello', 'lo') }}
```

5. Real-world Examples:

```
# Combining contexts
run: echo "Running on ${{ runner.os }} triggered by ${{ github.actor }}"

# Using environment variables
env:
GREETING: ${{ github.event_name == 'push' && 'Push event!' || 'Other event!' }}

6. Available Contexts:

• github - GitHub-specific information

• env - Environment variables

• job - Current job information

• steps - Step information

• runner - Runner information

• secrets - Repository secrets

• strategy - Strategy information for matrix jobs

• matrix - Matrix information for the current job

• needs - Outputs from dependent jobs
```

7. Common Gotchas:

```
# This won't work (direct string concatenation):
run: echo "${{ github.actor }} is testing"

# This will work:
run: echo "${{ github.actor }} is testing"
# or
run: echo "${{ format('{0} is testing', github.actor) }}"
```

Remember:

- Expressions are evaluated before the workflow is sent to a runner
- Sensitive information (like secrets) is masked in logs
- Context availability depends on when they're used (some contexts are only available during job execution)
- You can't use some complex programming features like loops or custom functions

Here's a practical example combining multiple concepts:

