

# Objective Questions for First Python Lecture

## 1. History of Python:

1. Who created Python and in which year was it first released?
  - a) James Gosling, 1995
  - b) Guido van Rossum, 1991
  - c) Brendan Eich, 1995
  - d) Rasmus Lerdorf, 1994
2. Why did Guido van Rossum name the language 'Python'?
  - a) After the Python snake
  - b) After Monty Python's Flying Circus
  - c) After a popular computer game
  - d) After his favorite book

## 2. Python Features:

3. Which of the following is a key feature of Python?
  - a) Complex syntax
  - b) Case sensitivity
  - c) Readability
  - d) Limited library support
4. What does it mean for Python to be an interpreted language?
  - a) Code is compiled before execution
  - b) Code is executed line by line
  - c) Code cannot be run on multiple platforms
  - d) Code is difficult to debug
5. Why is Python's readability important for developers?
  - a) It makes code faster
  - b) It reduces the need for comments
  - c) It allows code to be written in fewer lines
  - d) It makes code easier to understand and maintain
6. What is the significance of Python's large community and extensive libraries?
  - a) It reduces the size of Python programs
  - b) It provides extensive support and resources
  - c) It limits the use of third-party tools

d) It makes Python proprietary

7. Which of the following applications can Python be used for?

- a) Web development
- b) Data science
- c) Machine learning
- d) All of the above

### 3. Python Syntax and Basics:

8. What is the correct syntax to print 'Hello, World!' in Python?

- a) ``echo "Hello, World!"``
- b) ``printf("Hello, World!")``
- c) ``print("Hello, World!")``
- d) ``console.log("Hello, World!")``

9. Which of the following is the correct extension for a Python file?

- a) `.pyt`
- b) `.pt`
- c) `.py`
- d) `.python`

10. What is the output of the following code?

```
print(3 + 4 * 2)
```

- a) 14
- b) 11
- c) 10
- d) 7

### 4. Installing Python:

11. Where can you download the official Python installer for Windows?

- a) [python.org](https://www.python.org)
- b) [python.com](https://www.python.com)
- c) [github.com](https://www.github.com)
- d) [sourceforge.net](https://www.sourceforge.net)

12. Where can you download the official Python installer for Mac?

- a) [apple.com](https://www.apple.com)
- b) [python.org](https://www.python.org)
- c) [python.com](https://www.python.com)
- d) [macports.org](https://www.macports.org)

13. How can you verify the Python installation?

- a) ``python --install``
- b) ``python --version``
- c) ``python --check``
- d) ``python --validate``

## 5. Anaconda and Miniconda:

14. What is the difference between Anaconda and Miniconda?

- a) Anaconda includes more pre-installed packages than Miniconda
- b) Miniconda is for Windows, Anaconda is for Mac
- c) Miniconda includes an IDE, Anaconda does not
- d) Anaconda is free, Miniconda is paid

15. Why might someone choose to install Miniconda instead of Anaconda?

- a) Miniconda has a larger community
- b) Miniconda is more customizable and lightweight
- c) Anaconda is not compatible with all operating systems
- d) Anaconda is harder to install

16. Which command creates a new Conda environment with Python 3.8?

- a) ``conda create -n myenv python=3.8``
- b) ``conda init -n myenv python3.8``
- c) ``conda new -n myenv python=3.8``
- d) ``conda build -n myenv python=3.8``

## 6. Setting Up VS Code:

17. What is the purpose of the Python extension in VS Code?

- a) To provide syntax highlighting and code completion for Python
- b) To compile Python code
- c) To manage Python packages
- d) To run Python code on a server

18. How do you install the Python extension in VS Code?

- a) Use the command ``python install``
- b) Use the VS Code Extensions view and search for 'Python'
- c) Download it from python.org
- d) It comes pre-installed with VS Code

19. How can you set the Python interpreter in VS Code to use the one provided by Anaconda or Miniconda?

- a) ``Ctrl+Shift+P`` > 'Python: Select Interpreter'
- b) ``Ctrl+Shift+I`` > 'Select Python Interpreter'
- c) ``Ctrl+Alt+P`` > 'Set Interpreter'
- d) ``Ctrl+P`` > 'Choose Interpreter'

20. What are the steps to create and run a simple Python file in VS Code?

- a) Create a new file with a `.py` extension, write code, and click 'Run Python File in Terminal'
- b) Create a new file with a `.python` extension, write code, and click 'Execute'
- c) Open Command Prompt, write code, and run ``python file.py``
- d) Use the built-in Python IDE, write code, and click 'Run'