Let us get an overview of Python IDEs and also go through the details about setting up IDEs.

* Challenges using Python CLI
* Overview of ipython CLI
* Overview of IDEs
* Setup Visual Studio Code on Windows as well as Mac
* Advantages of IDEs such as Visual Studio Code
  + Code highlighting
  + Indentation
  + Refactoring
  + Integrated Terminal
  + Install Extensions
  + Integration with code versioning tools
  + Debugging Wizard

1. Which of the following is a challenge when using Python CLI?

a) Difficult to debug errors

b) Limited code editing features

c) Limited library support

d) All of the above

Answer: d) All of the above

2. What is ipython CLI?

a) A Python IDE

b) An interactive shell for Python

c) A library for scientific computing

d) None of the above

Answer: b) An interactive shell for Python

3. What is an IDE?

a) Integrated Debugging Environment

b) Interactive Development Environment

c) Internet Development Environment

d) None of the above

Answer: b) Interactive Development Environment

4. What is the advantage of using an IDE like Visual Studio Code?

a) Provides code highlighting

b) Provides code indentation

c) Provides refactoring tools

d) All of the above

Answer: d) All of the above

5. Which of the following is a feature of an IDE like Visual Studio Code?

a) Integrated Terminal

b) Integrated Browser

c) Integrated Music Player

d) None of the above

Answer: a) Integrated Terminal

6. What is the process to set up Visual Studio Code on Windows?

a) Download and install from Microsoft website

b) Use the Windows command prompt to install

c) Use a third-party package manager to install

d) None of the above

Answer: a) Download and install from Microsoft website

7. What is the process to set up Visual Studio Code on a Mac?

a) Download and install from Apple App Store

b) Use a third-party package manager to install

c) Use the Mac terminal to install

d) None of the above

Answer: a) Download and install from Apple App Store

8. What is code highlighting?

a) A feature that highlights syntax errors

b) A feature that highlights code based on its syntax

c) A feature that highlights code based on its popularity

d) None of the above

Answer: b) A feature that highlights code based on its syntax

9. What is code indentation?

a) A feature that aligns code to the left margin

b) A feature that aligns code to the right margin

c) A feature that indents code to make it more readable

d) None of the above

Answer: c) A feature that indents code to make it more readable

10. What is refactoring?

a) A process of improving the performance of code

b) A process of reorganizing code to make it more efficient

c) A process of rewriting code to make it more readable

d) None of the above

Answer: b) A process of reorganizing code to make it more efficient