

Task – 1

- **Clean Code Examples:**
- [10 Clean code examples \(Javascript\). - DEV Community](#)

Task -2

- **libraries for interface in python:**

1-PyQt5

2-Tkinter

3-Kivy

4-wxPython

5-PysimileGUI

6-Libavg

7-Pyforms

8-Pysides

9-Wax

10-PyGUI

Task – 3

- **What's the framework in Python that make mobile app?**
- **Kivy** is a cross-platform Python framework created to assist in rapid Python application development. It supports various user interfaces, including multi-touch screens, and various platforms, including iOS, Android, and Windows.

Task – 4

- What is a HashMap in Python?
- Hashmaps are data structures that are used to store data in a key-value format. They are commonly used because they provide fast lookup times, which can be important in applications where you need to quickly retrieve data. Additionally, they can be used to implement other data structures, such as sets and caches.
- Hashmaps are very useful to [software engineers](#). They allow for reading and working with large datasets when looking for keys or values and make it faster to search for specific values in $O(1)$.
- Here's a Python hashmap example to better understand its use:
- Let's say you need to quickly find an element in a large dataset, such as a school database. You have to efficiently keep track of the scores of various students. Each student has a matriculation number, which is the key, and a Grade Point Average (GPA), which is the value. Using a student's ID, you can check their GPA. You can calculate their performance, compare grades, and see their progress.

Task – 5

- **Auto complete extension in Jupyter?**

To enable code autocomplete in **Jupyter**

Notebook or **JupyterLab**, you just need to hit the Tab key while writing code. Jupyter will suggest a few completion options.

Navigate to the one you want with the arrow keys and hit Enter to choose the suggestion.

Task – 6

- **How to sort a list has many different types?**
- [Sort mixed list in Python - GeeksforGeeks](#)

Task – 7

- [What is garbage collection \(GC\) in programming? \(techtarget.com\)](https://techtarget.com)

Task – 8

- **C++ Version 2023**
- [2023 : Standard C++ \(isocpp.org\)](https://isocpp.org)

Task – 9

- What is the use of assembly these days?
 - Assembly language is used to directly manipulate hardware, access specialized processor instructions, or evaluate critical performance issues. These languages are also used to leverage their speed advantage over high level languages for time-sensitive activities such as high frequency trading.

Task – 10

- [\(6\) Architectural Pattern vs Design Pattern | LinkedIn](#)