Difference between Abstraction and

‏Abstraction in Python: Data abstraction in

‏ python and data encapsulation in python programming are related to each other. The main point that is necessary here to note is that data abstraction is only possible to achieve through encapsulation.

‏Encapsulation in python: means storing or placing data in a single place to make it easily readable and compact in one place. Whereas data abstraction in python programming means to hide internal functionalities that are performing on the application using codes and to show only essential information (class attributes)

‏Abstraction and Encapsulation in Python

1-When we are developing any large or enterprise application. Then it’s a good practice to use the concepts of data encapsulation and data abstraction in the coding approach.

2-Both terms are different in meaning but indirectly related to each other.

3-There are two types of programming approaches, Procedural programming and Object-oriented programming.

4-Encapsulation and Abstraction come under an object-oriented approach which is designed for writing easy and readable codes.

5-Encapsulation means storing the code of each functionality in one place. While abstraction is responsible for presenting only non-sensitive information to the user by hiding the sensitive information.

Advantages of Abstraction in Python:

1-Abstraction helps in reducing programming efforts and reduce coding complexity.

2-It is used to hide unwanted details from the user.

3-It allows focusing on the main concept.

Data abstraction doesn’t mean avoiding storing data, that is not necessary for some specific operation. Being a programmer, it is a good practice to define a separate method in which you can store less important data so that it can be used later when needed.