Encapsulation : is the hiding of the class variable from the outside of the class using protect or private and the only way to change the we will have to use sets or gets

private : if you use private you can inherit those variable from this class

protect : if you use private you can’t inherit those variable from this class

Abstraction : is the process of hiding the implementation an application from the user and emphasizing only on usage of it using abc (Abstract Base Classes)

The Difference between Abstraction and Encapsulation

|  |  |
| --- | --- |
| Abstraction | Encapsulation |
| In abstraction, problems are solved at the design or interface level. | While in encapsulation, problems are solved at the implementation level |
| Abstraction is the method of hiding the unwanted information. | Whereas encapsulation is a method to hide the data in a single entity or unit along with a method to protect information from outside |
| The objects that help to perform abstraction are encapsulated | Whereas the objects that result in encapsulation need not be abstracted. |

Code in (Abstraction and Encapsulation.ipynb)