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9.1.1 A General Forward Euler solver applied to coffee cooling

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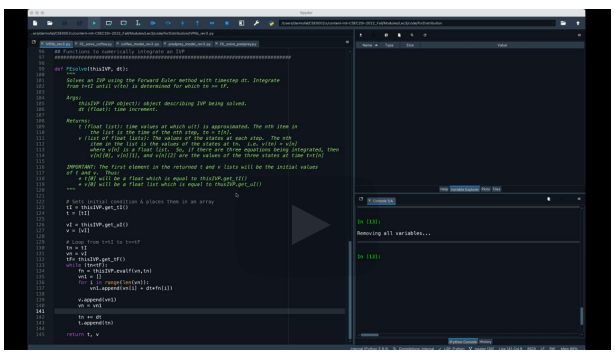
MO2.2 MO2.4

Our next step towards a general IVP solver is to implement the Forward Euler method for a general IVP. This general IVP solver will be included in the `IVPlib` as a function that utilizes the `IVP` class; however, it is not placed as a member function of the `IVP` class. The rationale for not placing it in the `IVP` class is a desire to keep that class simple with its purpose being to define an IVP. However, we do not feel this is clearly the best option and an IVP solver method could easily have been implemented as a method of the `IVP` class.

The following video discusses this general Forward Euler solver, and then applies it to the same coffee IVP as earlier.

The Python codes discussed in this video are available in the following zip file

Video on Forward Euler solver for general IVP



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PROFESSOR: We're now going to extend

the forward Euler solve to general initial value problems.

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