**Programming Foundations with Python – Solution Design**

For my solution, the concept of classes and inheritances will be very useful.

Like a blueprint, classes in programming allow us to create one template, which then can be used to create multiple instances.

Inheritance allows us to take those blueprints further and build upon them as is necessary.

For my solution, I will create one overall class called General that will allow me to create a .vcf contact file for media contacts. The basic information here for contacts will include first name, last name, media outlet, city, and email.

Since I also want to create .vcf files for TV media contacts, inheritance will be a useful tool here to bring in the fields from class General and include them in class TV. In addition to the fields from class General, class TV will also have a field for channel.

In addition to class TV, I would also like to include media contacts who are bloggers. Inheritance helps us here once again as well and I can take have class Blogger inherit all the fields from class General while also adding further the field for website.

Class Print will also inherit from class General and add a field for newspaper in addition to the other contact fields.

**Below are the basic steps the program will follow:**

* Start program
* Program prompts user for what type of reporter contact file we want to make (Print, TV, Blogger)
* Program prompts for first name
* Program prompts for last name
* Program prompts for email
* Program prompts for city
* If print, program prompts for newspaper name
* If blogger, program prompts for website
* If TV, program prompts for channel
* At end of prompts, user can continue to enter information for other reporters or type in “done” to end the program
* At the end, the program then creates a .vcf contact file for reach reporter
* A statement is printed upon completion of each file’s creation