Week 3 – Inheritance 2

1. What are the parent and child classes here?
   1. Answer: Parent class: “Spell”, Child class: “Accio” & “Confundo”
2. What are the base and sub-classes?
   1. Answer: Base class: “Spell”, Sub-class: “Accio” & “Confundo”
3. What is the output from this code?
   1. Answer:

Accio

Summoning Charm Accio

No description

Confundus Charm Confundo

Causes the victim to become confused and befuddled.

1. When study\_spell(Confundo()) executes, what get\_description method gets called and why?
   1. Answer: When study\_spell(Confundo()) executes it calls the get\_description() method from the child class, Confundo. This particular description method is called because the Confundo class overrides the Spell class due to overloading logic.
2. The statement print Accio() needs to print ‘This charm summons an object to the caster, potentially over a significant distance’. Write down the code that we need to add and/or change.
   1. Answer: We could add the following method to the “Accio” class:

def \_\_str\_\_(self):

return “This charm summons an object to the caster, potentially over a significant distance”