Class Inheritance and Slicing:

Class Inheritance:

Process of inheriting behaviour and appearance from an existing class is known as Class Inheritance. Both appearance (attributes) and behaviour (methods) can be inherited.

```
class Fish:
def __init__(self):
```

In order for the fish class to inherit another class (say, Animal), all we have to do is add the name of the class in a set of parentheses (the name of the class it's inheriting from) and add super() in order to inherit everything of the parent class (the attributes and methods).

```
class Fish(Animal):
       def __init__(self):
       super().__init__()
E.g.:
Class Animal:
       def __init__(self):
               self.num_eyes = 2
       def breathe(self):
               print("Inhale, Exhale.")
class Fish(Animal):
       def __init__(self):
               super().__init__()
       def breathe(self):
               super().breathe()
               print("Doing this under water")
       def swim(self):
               print("Moving in water.")
Slicing:
piano_keys = ["a", "b", "c", "d", "e", "f", "g"]
                  |a| b|c |d|e|f|
                  0 1 2 3 4 5 6
piano_keys[2:5]
--- ["c", "d", "e"]
piano_keys[2:]
--- ["c", "d", "e", "f", "g"]
piano_keys[:5]
--- ["ā", "b", "c", "d", "e"]
piano_keys[2:5:2]
---["c", "e"]
```

```
piano_keys[::2] (go from beginning to the end & skip every 2nd item)
-- ["a", "c", "e", "g"]

piano_keys[::-1] (reverse the list)
--- ["f", "e", "d", "c", "b", "a"]
```

NOTE: We can use the same method of slicing to work with our tuples.