

## Finals LAB TASK3: Polymorphism

**Problem:** Chirp and Tweet

Create a simple program to demonstrate basic polymorphism with bird sounds.

**Source Code:**

```
from abc import ABC, abstractmethod
from typing import List

class Bird(ABC):
    @abstractmethod
    def make_sound(self) -> str:
        pass

class Sparrow(Bird):
    def make_sound(self) -> str:
        return "Chirp Chirp"

class Parrot(Bird):
    def make_sound(self) -> str:
        return "Tweet Tweet"

class BirdCage:
    def make_bird_sounds(self, birds: List[Bird]) -> List[str]:
        sounds = []
        for bird in birds:
            sounds.append(bird.make_sound())
        return sounds

#Main
sparrow = Sparrow()
parrot = Parrot()

print(sparrow.make_sound())
print(parrot.make_sound())

cage = BirdCage()
print(cage.make_bird_sounds([sparrow, parrot]))
```

**Sample Output:**

```
Chirp Chirp
Tweet Tweet
['Chirp Chirp', 'Tweet Tweet']
```