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C204

Finals Task 3. Simple Polymorphism

Source Code:

Main.py:

```
from sparrow import Sparrow
from parrot import Parrot
from birdCage import BirdCage

def main():
    sparrow1 = Sparrow()
    sparrow2 = Sparrow()
    parrot1 = Parrot()
    parrot2 = Parrot()

    birds = [sparrow1, parrot1, sparrow2, parrot2]

    cage = BirdCage()

    cage.make_bird_sounds(birds)

if __name__ == "__main__":
    main()
```

Bird.py:

```
py | Bird.py | • | sparrow.py | • | parrot.py
class Bird:
    def make_sound(self) -> None:
        raise
```

Sparrow.py:

```
in.py | bird.py | sparrow.py | parrot.py
1  from bird import Bird
2
3  class Sparrow(Bird):
4      def make_sound(self) -> None:
5          print("Chirp Chirp")
6
```

Parrot.py :

```
from bird import Bird

class Parrot(Bird):
    def make_sound(self) -> None:
        print("Tweet Tweet")
```

BirdCage.py:

```
main.py | bird.py | sparrow.py | parrot.py | birdCage.py
1  from typing import List
2  from bird import Bird
3
4  class BirdCage:
5      def make_bird_sounds(self, birds: List[Bird]) -> None:
6          for bird in birds:
7              bird.make_sound()
8
```

Example OutPut:

```
Chirp Chirp
Tweet Tweet
Chirp Chirp
Tweet Tweet
```