

Philip Pesic

Week 7

October 2 2022

Week 7 Lecture 7 Notes

Composition

Using several individual things to create a class/larger thing. Composition is not unique to programming, it is used in everyday life as well.

Ex: A Pen: Ink, a shaft, a spring, and a cap are individual things that compose a pen

3 Parts of a class

1: Class definition - define a class, its subclasses, and what they do

2: Declare a class - declare an object of a class

3: Calling class - using dot notation to call a class

Ex:

```
Class myClass { //Step 1
```

```
Int x;
```

```
Public:
```

```
Int getX() {return x;};
```

```
}
```

```
myClass myObject; //Step 2
```

```
myObject.getX(); //Step 3
```

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Additional information

Parts that compose a class are dependent on the class. When the class is discarded, so are the parts.