Object-Oriented Programming, Part II

Ruby namespace

In Ruby, the term namespace refers to a module the contains a group of related objects. An example of a Ruby namespace is the Math module.

#To retrieve a constant from the Math module,
 the scope resolution operator (::), should b
e used.

```
puts Math::PI
# => 3.141592653589793
```

#In this example, Ruby is targetting the PI c onstant from the Math module using the scope resolution operator, (::), and printing its v alue to the console.

Ruby require Keyword

In Ruby, the require keyword is used to fetch a certain module which isn't yet presented in the interpreter. It is best practice to place this at the beginning of your code.

Ruby attr_accessor Method

In Ruby, attr_accessor , used to make a variable both readable and writeable, is a shortcut to attr_reader and attr_writer .

```
require 'date'
puts Date.today
# => 2020-04-16
```

```
class CollegeStudent
  attr_reader :dorm
  attr_accessor :major

  def initialize(dorm, major)
    @dorm = dorm
          @major major
  end
end
```

#In this example, Ruby is able to only read the Qdorm instance variable but both read and write the Qmajor instance variable since it was passed to the attraccessor method.

Ruby Module

code cademy

In Ruby, a *module* contains a set of methods, constants, or classes which can be accessed with the . operator similarly to classes . Unlike classes, it is impossible to create instances of a Ruby module.

#A Ruby module can be created using the modul e keyword followed by the module name written in CapitalizedCamelCase format finalized wit h an end.

```
module MyPizza
  FAVE_TOPPING = "Buffalo Chicken"
end
```

#In this example, myPizza is a module that ho lds a constant, FAVE_TOPPING, set equal to the string, Buffalo Chicken.