

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 be used.

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

#In this example, Ruby is targetting the PI constant from the Math module using the scope resolution operator, (::), and printing its value 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.

```
require 'date'
```

puts Date.today
=> 2020-04-16



Ruby Module

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 module keyword followed by the module name written in CapitalizedCamelCase format finalized with an end.

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

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

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.

```
attr_reader :dorm
attr_accessor :major

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

class CollegeStudent

end

end

#In this example, Ruby is able to only read the @dorm instance variable but both read and write the @major instance variable since it was passed to the attr accessor method.





