

Module

Math → predefined module (Inbuilt) ^{Since} → inbuilt method

- modules are a way of grouping together methods, classes, and constants.
- collection of methods, classes, constants, and class variables.
- modules are defined as a class, but with the module keyword not with class keyword.
- ⇒ modules provide a namespace and prevent name clashes.

namespace

declarative region that provides a scope to the

- ⇒ module prevent ^{clashes of method name} identifiers inside it.
- modules implement the mixin facility.

Syntax

```
module Module-name
{ Body }
end
```

Syntax for accessing the constants within the module

```
Puts Module-name :: BAD
```

Access Symbol

{ Body } → BAD = 1 or Bad = 1
↓
Constants in module always starts with capital letter

Syntax for defining a method inside module

```
def module_name . Method_name (x)
```

parameter

How to access methods from outside the module

Math → predefined module

- ⇒ puts module_name . Method_name (~~Module_name . #code~~)
- ⇒ puts Module_name :: BAD
- ⇒ puts module_name . method_name (Module_name :: BAD)

Class within module

Syntax

```

module Module_name
  class Class_name
    module Module_name
      class Class_name
        def my method
          #code
        end
      end
    end
  end
end
  
```

⇒ How to access the class and how to create a object outside this module

obj = Module_name :: Class_name . new

and how to access the method inside the class

obj . my method

module my module 2

class Test class

def initialize

puts "Test class object created"

end

def my method

puts "It is a user defined method"

end

end

initialize and define a constructor.
default constructor method called when object is created

user defined method
(only executed when we are calling the method)

Our module
[inside of module]

#create object

creating object by using new keyword

Obj1 = mymodule2 :: Test class . new

Obj1 . my method

This statement is going to call the default constructor method

⇒ default constructor method is executed as soon as the object is created

Op ⇒

Test class object created

It is a user defined method

Outside of module