

Part 2:

Program runs:

- Step 1: Create a new instance of a class BeeColony and run its method.
 - Step 2: Create a new instance of a class FPTUniversity and run its method.
 - Step 3: Create a new instance of a class BeeColony and run its method.
 - Step 4: Create a new instance of a class FPTUniversity and run its method.
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- What is stored in the static heap, stack, dynamic heap?
 - Static heap, the class objects and static variables are stored.
 - Stack, the method calls, local variables, and object references are stored.
 - Dynamic heap, the objects are stored.
 - Why the Organization class is abstract?
 - Organization class has an abstract method.
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- Why must the Colony/University class implement the communicateBytool() method?
 - Because Role is an interface.
 - You explain the polymorphism feature in your code.
 - Done.

- Describe the difference between an interface and an abstract class.
- Interface: a set of classes that are not related to each other.
- Abstract class: a set of interrelated classes.