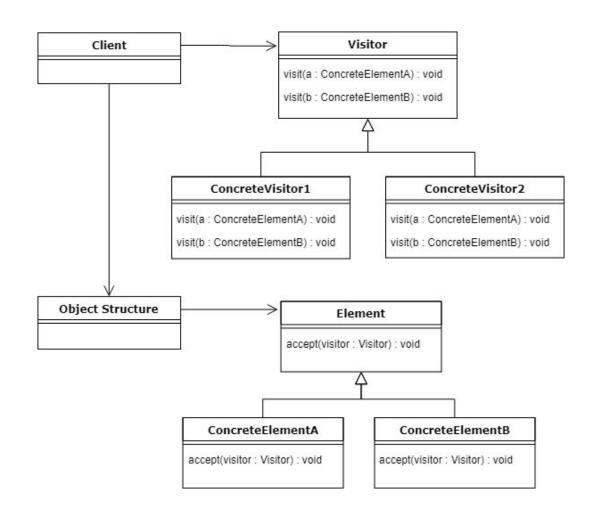
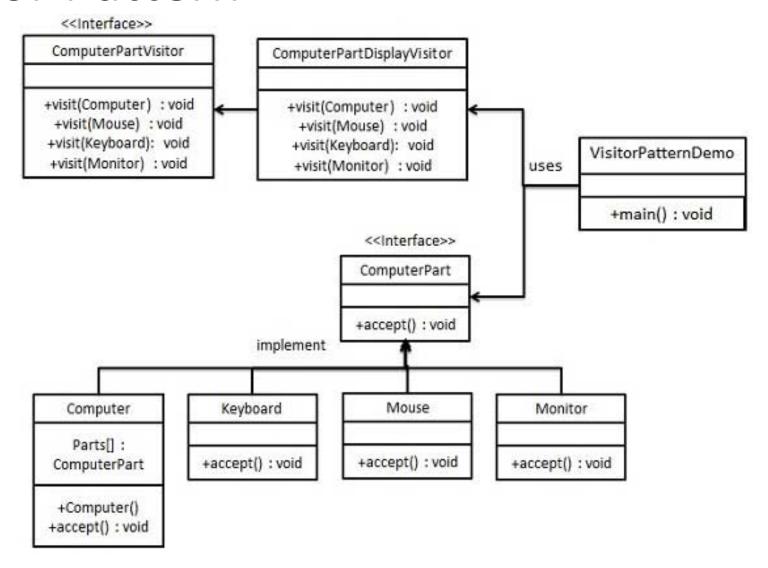
- Use a visitor class which changes the executing algorithm of an element class.
- Place the new behavior into a separate class called *visitor*, instead of trying to integrate it into existing classes.
- This pattern comes under behavior pattern category.





```
ComputerPart.java
 public interface ComputerPart {
    public void accept(ComputerPartVisitor computerPartVisitor);
Keyboard.java
public class Keyboard implements ComputerPart {
   @Override
   public void accept(ComputerPartVisitor computerPartVisitor) {
      computerPartVisitor.visit(this);
Mouse.java
public class Mouse implements ComputerPart {
  @Override
   public void accept(ComputerPartVisitor computerPartVisitor) {
      computerPartVisitor.visit(this);
```

Computer.java

```
public class Computer implements ComputerPart {
   ComputerPart[] parts;
   public Computer(){
      parts = new ComputerPart[] {new Mouse(), new Keyboard(), new Monitor()};
   @Override
   public void accept(ComputerPartVisitor computerPartVisitor) {
      for (int i = 0; i < parts.length; i++) {
         parts[i].accept(computerPartVisitor);
      computerPartVisitor.visit(this);
```

ComputerPartVisitor.java

```
public interface ComputerPartVisitor {
    public void visit(Computer computer);
    public void visit(Mouse mouse);
    public void visit(Keyboard keyboard);
    public void visit(Monitor monitor);
```

ComputerPartDisplayVisitor.java

```
public class ComputerPartDisplayVisitor implements ComputerPartVisitor {
   @Override
   public void visit(Computer computer) {
      System.out.println("Displaying Computer.");
   @Override
   public void visit(Mouse mouse) {
      System.out.println("Displaying Mouse.");
   @Override
   public void visit(Keyboard keyboard) {
      System.out.println("Displaying Keyboard.");
   @Override
   public void visit(Monitor monitor) {
      System.out.println("Displaying Monitor.");
```

VisitorPatternDemo.java

```
public class VisitorPatternDemo {
   public static void main(String[] args) {

        ComputerPart computer = new Computer();
        computer.accept(new ComputerPartDisplayVisitor());
   }
}
```

- Difference between strategy and Visitor?
- Learn the concept "Double Dispatch".
- How visitor pattern is related to Composite?