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Roll no.: 242010032
!apt-get install openjdk-11-jdk -y
     Show hidden output
%%writefile Main.java
// Computer class with Builder Pattern
class Computer {
   private String CPU;
   private String GPU;
   private int internalMemory;
   private int externalMemory;
   private String OS;
   private boolean touchScreen;
   private boolean bluetoothMouse;
   private boolean bluetoothKeyboard;
   // Private constructor
   private Computer(ComputerBuilder builder) {
        this.CPU = builder.CPU;
        this.GPU = builder.GPU;
       this.internalMemory = builder.internalMemory;
        this.externalMemory = builder.externalMemory;
        this.OS = builder.OS;
       this.touchScreen = builder.touchScreen:
        this.bluetoothMouse = builder.bluetoothMouse;
        this.bluetoothKeyboard = builder.bluetoothKeyboard;
   }
   @Override
   public String toString() {
       return "Computer Configuration:\n" +
                "CPU: " + CPU + "\n" +
                "GPU: " + GPU + "\n" +
                "Internal Memory: " + internalMemory + "GB\n" +
                "External Memory: " + externalMemory + "GB\n" +
                "OS: " + OS + "\n" +
                "Touch Screen: " + touchScreen + "\n" +
                "Bluetooth Mouse: " + bluetoothMouse + "\n" +
                "Bluetooth Keyboard: " + bluetoothKeyboard;
   }
   // Static Builder Class
   public static class ComputerBuilder {
       private String CPU;
       private String GPU;
        private int internalMemory;
        private int externalMemory;
        private String OS;
       private boolean touchScreen;
       private boolean bluetoothMouse;
       private boolean bluetoothKeyboard;
        public ComputerBuilder setCPU(String CPU) {
            this.CPU = CPU;
            return this;
        }
        public ComputerBuilder setGPU(String GPU) {
            this.GPU = GPU;
            return this;
        }
        public ComputerBuilder setInternalMemory(int internalMemory) {
            this.internalMemory = internalMemory;
            return this;
        }
        public ComputerBuilder setExternalMemory(int externalMemory) {
            this.externalMemory = externalMemory;
```

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public ComputerBuilder setOS(String OS) {
            this.OS = OS;
            return this;
        public ComputerBuilder setTouchScreen(boolean touchScreen) {
            this.touchScreen = touchScreen;
            return this;
        public ComputerBuilder setBluetoothMouse(boolean bluetoothMouse) {
            this.bluetoothMouse = bluetoothMouse;
            return this;
        public ComputerBuilder setBluetoothKeyboard(boolean bluetoothKeyboard) {
            this.bluetoothKeyboard = bluetoothKeyboard;
            return this;
        public Computer build() {
            return new Computer(this);
        }
    }
}
// Main class to demonstrate the Builder Pattern
public class Main {
    public static void main(String[] args) {
        Computer myComputer = new Computer.ComputerBuilder()
                .setCPU("Intel i9")
                .setGPU("NVIDIA RTX 4090")
                .setInternalMemory(32)
                .setExternalMemory(1024)
                .setOS("Windows 11")
                .setTouchScreen(true)
                .setBluetoothMouse(true)
                .setBluetoothKeyboard(true)
                .build();
        System.out.println(myComputer);
    }
}
→ Writing Main.java
!javac Main.java
!java Main
→ Computer Configuration:
     CPU: Intel i9
     GPU: NVIDIA RTX 4090
     Internal Memory: 32GB
     External Memory: 1024GB
     OS: Windows 11
     Touch Screen: true
     Bluetooth Mouse: true
     Bluetooth Keyboard: true
```