Part 1

Guitar

-SerialNumber: String

-price : double-builder: String-model: String-backWood: String-topWood: String

//constructors

+Guitar();

+Guitar(String SerialNumber, double price, String builder, String model, String backWood, String topWood)

//getters and setters all the value

// other logic methods

+createSound(): void

Inventory

-guitar : List<Guitar>

+addGuitar(guitar:Guitar): void

+searchGuitarBySerialNumber (serialNumber: String): Guitar

Part 4

Static heap: contains static variables and methods

Stack: stored methods, local variable

Dynamic heap: stored objects and their instance variables

Objects in program: obj1, obj2

State of obj1, obj2: (serialNumber, builder,model,backWood,topWood,price):private