

Selected files

7 printable files

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Part4_Object.puml

Part1_Class.puml

@startuml

'https://plantuml.com/class-diagram

```
abstract class Employee{
    -firstName: String
    -lastName: String
    -socialSecurityNumber: String
    +getFirstName(): String
    +setFirstName(in firstName: String): void
    +getLastName(): String
    +setLastName(in lastName: String): void
    +getSocialSecurityNumber(): String
    +setSocialSecurityNumber(in socialSecurityNumber: String): void
    +toString(): String
}
```

```
class SalariedEmployee{
    -weeklySalary: int
    +getWeeklySalary(): int
    +setWeeklySalary(in weeklySalary: int): void
    +toString(): String
}
```

```
class HourlyEmployee{
    -wage: int
    -hoursWorked: int
    +getWage(): int
    +setWage(in wage: int): void
    +getHoursWorked(): int
    +setHoursWorked(in hoursWorked: int): void
    +toString(): String
}
```

```
class CommissionEmployee{
    -commissionRate: int
    -grossSales: int
    +getCommissionRate(): int
    +setCommissionRate(in commissionRate: int): void
    +getGrossSales(): int
    +setGrossSales(in grossSales: int): void
    +toString(): String
}
```

```
class BaseEmployee {
    -baseSalary: int
    +getBaseSalary(): int
    +setBaseSalary(in baseSalary: int): void
    +toString(): String
}
```

```

Employee <|.. BaseEmployee
Employee <|.. HourlyEmployee
Employee <|.. CommissionEmployee
Employee <|.. SalariedEmployee
@enduml

```

Part2_Class.puml

```

@startuml
'https://plantuml.com/class-diagram

class Ship{
#shipName: String
#yearBuilt: String
+getShipName(): String
+setShipName(in shipName: String): void
+getYearBuilt(): String
+setYearBuilt(in yearBuilt: String): void
+toString(): String
+printShip(): void
}

class CargoShip{
-cargoCapacityInTonnage: int
+getCargoCapacityInTonnage(): int
+setCargoCapacityInTonnage(in cargoCapacityInTonnage: int): void
+toString(): String
}

class CruiseShip{
-maxNumberPassengers: int
+getMaxNumberPassengers(): int
+setMaxNumberPassengers(in maxNumberPassengers: int): void
+toString(): String
}

Ship <|--- CargoShip
Ship <|--- CruiseShip
@enduml

```

Part2_Object.puml

```

@startuml
'https://plantuml.com/object-diagram

object "<u>Titanic:Ship</u>" as ts{
shipName = "Titanic"
yearBuilt = "March31st, 1909"
}

object "<u>MVGemini:CruiseShip</u>" as mvg{
shipName = "MVGemini"
yearBuilt = "May30th, 1991"
maxNumberPassengers = 100
}

object "<u>EverGiven:CargoShip</u>" as eg{
shipName = "EverGiven"
yearBuilt = "September25th, 2018"
cargoCapacityInTonnage = 220940
}

```

```

}

object "<u>ships:Ship</u>" as ships{

}

ships <|-- ts
ships <|--- mvg
ships <|--- eg

@enduml

```

Part3_Class.puml

```

@startuml
'https://plantuml.com/class-diagram

class Instructor{
firstName: String
lastName: String
officeNumber: String
+getFirstName(): String
+setFirstName(in firstName: String): void
+getLastName(): String
+setLastName(in lastName: String): void
+getOfficeNumber(): String
+setOfficeNumber(in officeNumber: String): void
+toString(): String
}

class Textbook{
title: String
author: String
publisher: String
+getTitle(): String
+setTitle(in title: String): void
+getAuthor(): String
+setAuthor(in author: String): void
+getPublisher(): String
+setPublisher(in publisher: String): void
+toString(): String
}

class Course{
name: String
instructors: ArrayList<Instructor>
textbooks: ArrayList<Textbook>
+Course()
+getName(): String
+setName(in name: String): void
+getInstructors():Instructor
+setInstructor(in instructor: Instructor): void
+getTextbooks(): Textbook
+setTextbook(in textbook: Textbook): void
+toString(): String
+printCourse(): void
}

Course o-- Instructor
Course o-- Textbook
@enduml

```

Part3_Object.puml

```

@startuml
'https://plantuml.com/object-diagram

object "<u>c1:Course</u>" as c1{
name = "CS5800 - Advanced Software Engineering"
}

object "<u>c1Instructor:Instructor</u>" as c1Instructor{
firstName = "Nima"
lastName = "Davarpanah"
officeNumber = "3-2636"
}

object "<u>c1Textbook:Textbook</u>" as c1Textbook{
title = "CleanCode:A Handbook of Agile Software Craftsmanship"
author = "Robert Cecil Martin"
publisher = "Pearson"
}

c1 o-- c1Instructor
c1 o-- c1Textbook

@enduml

```

Part4_Class.puml

```

@startuml
'https://plantuml.com/class-diagram

class File{
-name: String
+File(in name: String)
+getName(): String
+setName(in name: String): void
+toString(): String
}

class Folder{
-name: String
-subfolders: ArrayList<Folder>
-files: ArrayList<File>
+Folder()
+getName(): String
+setName(in name: String): void
+removeSubfolder(in subFolderName: String): void
+addSubfolder(in subFolderName: String): String
+getSubfolder(in subFolderName: String): Folder
+removeFile(in file: File): boolean
+addFile(in fileName: String): void
+toString(): String
+printFolderContents(): void
}

Folder *-- File
Folder *-- Folder

@enduml

```

Part4_Object.puml

```
@startuml
'https://plantuml.com/object-diagram

object "<u>phpDemo1:Folder</u>" as phpD{
name = "php_demo1"
subfolders = {"Source Files", "Include Path", "Remote Files"}
files = {}
}

object "<u>Source Files:Folder</u>" as sf{
name = "Source Files"
subfolders = {".phalcon", "cache", "public"}
files={}
}
object "<u>public:Folder</u>" as public{
name = "public"
subfolders = {}
files={".htaccess", ".htrouter.php", "index.html"}
}

phpD *-- sf
sf *-- public

@enduml
```