**Prompt:**  
YOUR COMPUTER HAS CRASHED AND YOU HAVE LOST YOUR REQUEST INHERITANCE HIERARCHY!!!!!!!   
All that remains of this catastrophe is your Server class, a DataGenerator class and some old output.   
Back in the pre-crash days, your server would take in a variety of requests and print diagnostic information about each request.   
Your mission, should you choose to accept, would be to reverse engineer an inheritance hierarchy that will model different kinds of requests with minimal code repetition.   
This problem is of medium difficultly and would be a wonderful addition to your oral exam portfolio!   
Good Luck!

**EXAMPLE OUTPUT:**

RequestInheritance.GetVideoRequest@27c170f0

UUID: ea81d8f2-c283-4d64-ad32-b8c21d3c3ceb

Universal Resource Locator (URL): localhost:6373

Video: Pythonistas Pythoning with Pythons

By: Markus

RequestInheritance.GetFileRequest@5451c3a8

UUID: 06fcd9c6-29cb-43b1-ab00-48ef3900eb28

Universal Resource Locator (URL): file:///Users/cie\_student/question.txt

File Path: /Users/cie\_student/question

File Type: txt

RequestInheritance.PostEncryptedPaymentRequest@2626b418

UUID: f023e014-2d84-4146-8508-7b4bf5cd5c15

Post request to server with IP address: 184.5.247.153

Payment Data

Payment sender: Diego

Payment amount: $7795

Payment receiver: Tina

This payment was encrypted using: One Time Pad

RequestInheritance.PostPaymentRequest@5a07e868

UUID: 49ccef08-ab0f-41f8-81bc-d01e267bb018

Post request to server with IP address: 253.10.29.37

Payment Data

Payment sender: Guadalupe

Payment amount: $6375

Payment receiver: Michael

RequestInheritance.PostEncryptedFormRequest@76ed5528

UUID: dbae9f62-880d-4b2a-8c7b-4c6a370a8775

Post request to server with IP address: 85.41.15.246

Form Data

Label: Favorite color

Value: orange

Label: Favorite encryption scheme

Value: Diffie-Hellman

Label: Name

Value: Alex

This form was encrypted using: Vigenere

RequestInheritance.PostFormRequest@2c7b84de

UUID: 8eb85c91-af33-4a60-8b22-febe3be5ff58

Post request to server with IP address: 130.133.4.238

Form Data

Label: Favorite color

Value: green

Label: Favorite encryption scheme

Value: One Time Pad

Label: Name

Value: Tom

RequestInheritance.PostRequest@3fee733d

UUID: 8285d9e8-bb75-4c6a-b315-96d9f3e41256

Post request to server with IP address: 163.221.255.79

RequestInheritance.GetRequest@5acf9800

UUID: 26d00be0-beda-4264-a8e7-91138dc1e0be

Universal Resource Locator (URL): localhost:9954

RequestInheritance.Request@4617c264

UUID: da86433b-fd5c-4cf2-bdd0-388a644f809d

Server summary:

Total Requests: 9

Get Requests: 3

Post Requests: 5

Post Form Requests: 2

Post Encrypted Form Requests: 1

Post Payment Requests: 2

Post Encrypted Payment Requests: 1

Get File Requests: 1

Get Video Requests: 1

Process finished with exit code 0