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CST213\_Week01\_ShortAssignment\_1a

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**Assignment**

Create a bean that calculates the total storage needed for a video file. The input values are the video quality (720p or 1080p) and duration in seconds. The bean will calculate and display the storage requirements in MB and GB. Create an application that uses the bean and displays the results. Note that this is a server-only application.

**Approach to design and implementation**

The approach to this is pretty straight forward.

I created a class (CST213\_Week01\_ShortAssignment\_1a) and use it to create two new objects using the (videoCalculator) bean.

I pass it two values, one for a 720p file and another for a 1080p file. I use the (getFile\_size) method to do some math to return the estimated file size, based off of the length and standard bitrate per second for a file of that resolution.

I return that to the (CST213\_Week01\_ShortAssignment\_1a) class which determines if the file is larger 1 gigabyte.

Based off this the correct message is printed out.

**See a list of all classes, methods, variables, and beans below.**

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**CST213\_Week01\_ShortAssignment\_1a**

-diskSpace1: double

-diskSpace2: double

+main()

**videoCalculator**

-resolution: int

-video\_length: double

-file\_size: double

+videoCalculator(int, double)

+setResolution(int)

+getResolution():int

+setVideo\_length(double)

+getVideo\_length():double

+getFile\_size():double