**Overview – Test Cases**

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* Technologies - .Net Framework 4.5, C# 7, MS Test, Moq
* Application architecture - n Tier (Presentation, Service Layer)
* Design Patterns - Dependency Injection, Facade, Adapter, Proxy

**Test Cases**

1. If functionality to perform input is null and file path is null then the output will be null.
2. If functionality to perform input is not null and file path is null then the output will be null.
3. If functionality to perform input is null and file path is not null then the output will be null.
4. If functionality to perform input is equal to an item in the list "-v", "--v", "/v", "--version" as case-sensitive and file path is not null then the output will be a random file version
5. If functionality to perform input is equal to an item in the list "-v", "--v", "/v", "--version" as case-sensitive and file path is null then the output will be null.
6. If functionality to perform input contains any string from the list "-v", "--v", "/v", "--version" and file path is not null  then the output will be null.
7. If functionality to perform input is equal to an item in the list "-s", "--s", "/s", "--size" as case-sensitive and file path is not null then the output will be a random file size
8. If functionality to perform input is equal to an item in the list "-s", "--s", "/s", "--size" as case-sensitive and file path is null  then the output will be null
9. If functionality to perform input contains any string from the list "-s", "--s", "/s", "--size" and file path is  not null  then the output will be null
10. If functionality to perform input contains any string from the list "-s", "--s", "/s", "--size" and file path is  null  then the output will be null
11. If functionality to perform input is a non-case-sensitive item from the list "-s", "--s", "/s", "--size" and file path is  not null  then the output will be null
12. If functionality to perform input is a non-case-sensitive item from the list "-s", "--s", "/s", "--size" and file path is  null  then the output will be null
13. If functionality to perform input contains any string from the list "-s", "--s", "/s", "--size" and matching as non-case sensitive and file path is not null then the output will be null
14. If functionality to perform input contains any string from the list "-s", "--s", "/s", "--size" and matching as non-case sensitive and file path is null then the output will be null
15. If functionality to perform input is a non-case-sensitive item from the list "-v", "--v", "/v", "--version" and file path is  not null then the output will be null
16. If functionality to perform input is a non-case-sensitive item from the list "-v", "--v", "/v", "--version" and file path is  null then the output will be null
17. If functionality to perform input contains any string from the list "-v", "--v", "/v", "--version" and matching as non-case sensitive and file path is not null then the output will be null
18. If functionality to perform input contains any string from the list "-v", "--v", "/v", "--version" and matching as non-case sensitive and file path is null then the output will be null