# [WebTraining9: Type Script (new exercise)](https://confluence.app.iaf/pages/viewpage.action?pageId=33915663)

# In this exercise we will create a logging library with the following functionalities:

* The logger will have the abillity to print to the console and to a file.
* The logger will have the following logging levels:
  + Debug - White
  + Info - Green
  + Warning - Yellow
  + Error - Red
* For each logging level there is a color as written above.

Configuration  
An object with the following parameters:

* Console : boolean
* File: Boolean
* Colors: Boolean
* LogLevel: enum / string

API

1. Constructor(name, configuration)  
   Create a new instance of the class.  
   The user will provide a **name** for the logger and **configuration**\* settings
2. Log (level, messages)  
   Log messages by a provided logging level.  
   The use will provide a logging **level** and can provide as many **messages** as they would like.  
     
   **note:** If the user does not provide a logging level, the default logging level as provided in the configuration should be used.
3. Info(messages)  
   Log messages under ‘info’ logging level.  
   The user may provide as many **messages** as they would like.
4. Debug(messages)  
   Log messages under ‘debug’ logging level.  
   The user may provide as many **messages** as they would like.
5. Warning(messages)  
   Log messages under ‘info’ logging level.  
   The user may provide as many **messages** as they would like.
6. Error(messages)  
   Log messages under ‘info’ logging level.  
   The user may provide as many **messages** as they would like.

How to use colors

To add color to a console message we type the following syntax:  
\x1b[**[color\_number]**m%s\x1b[0m

Colors numbers  
Red: 31  
Green:32  
Yellow:33  
White:37

Example  
  
console.log(‘\x1b[**33**m%s\x1b[0m’, “Hello”) // yellow color

console.log(‘\x1b[**31**m%s\x1b[0m’, “Hello”) // red color

Emphasis

1. The logger can write to a file and to the console or to each of them explicitly.
2. Each method provided the ‘messages’ variable should take all the parameters from that point on.Expample:  
   logger.info(“Hello”,”World”)  
   Will print **two** logs, one for ‘Hello’ and another for ‘World’.