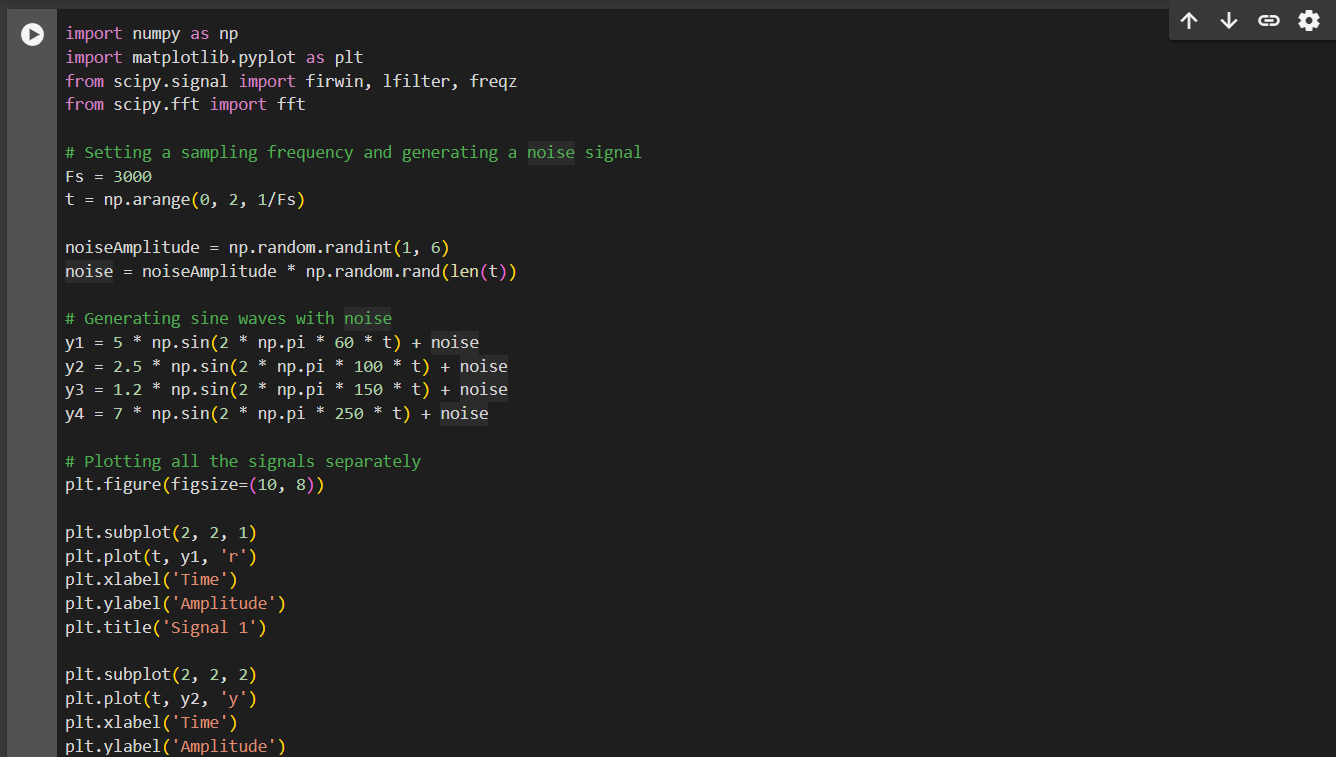
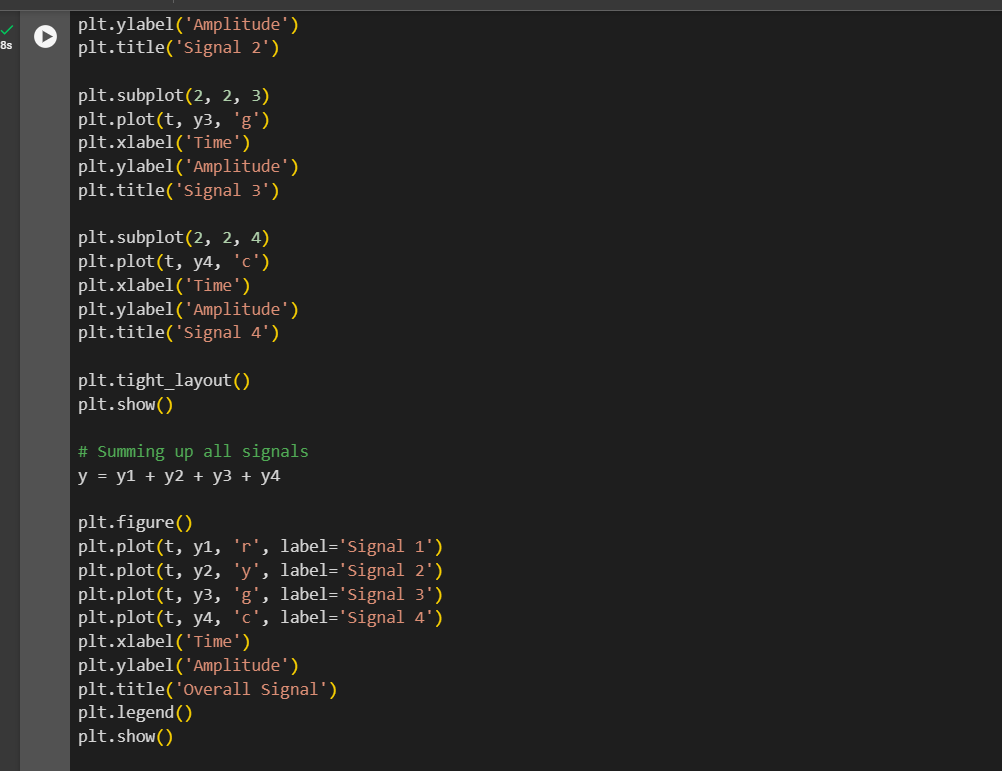
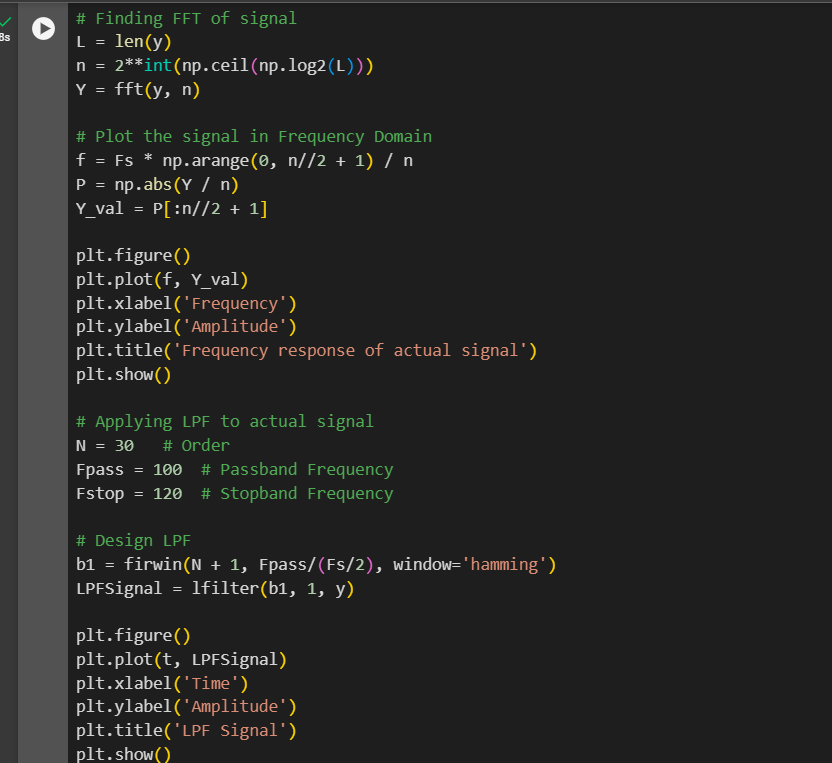
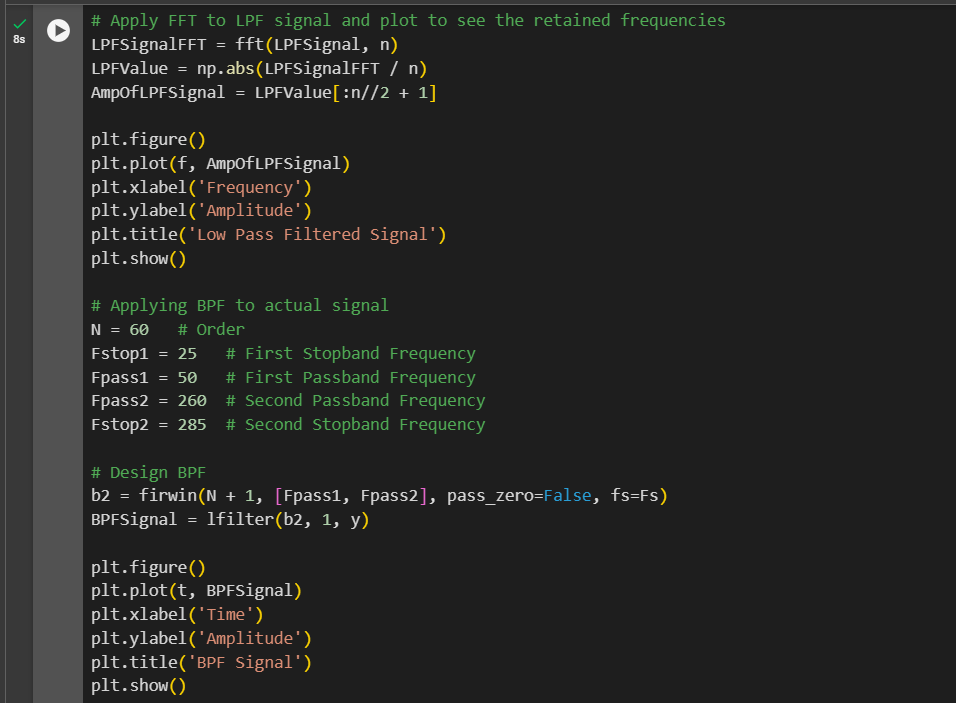
**Code:**

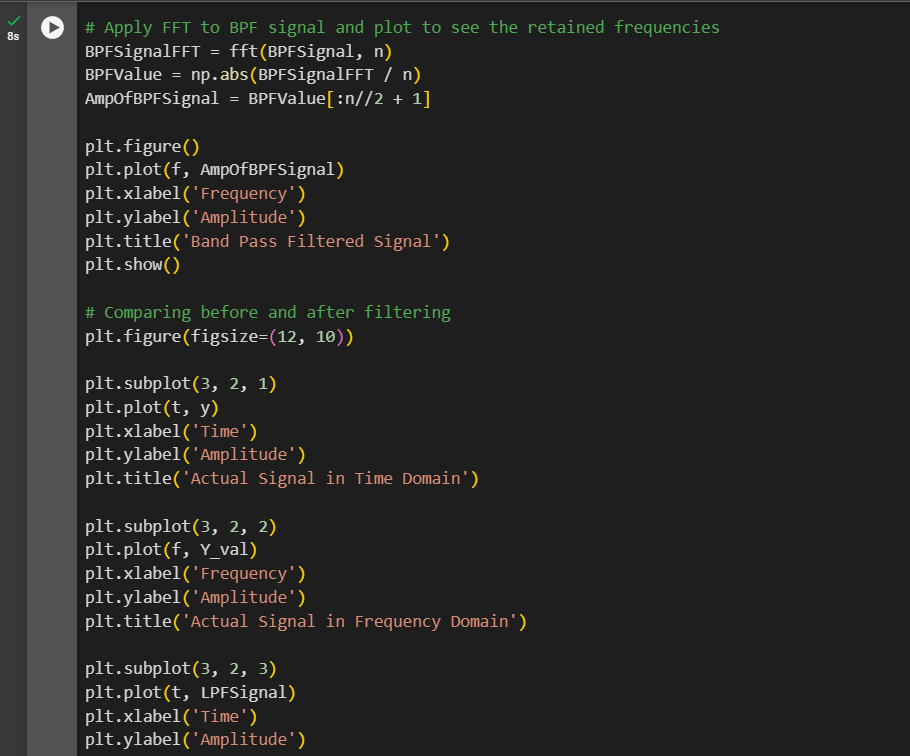
*We have run the code on Google Colab and here is the result:*

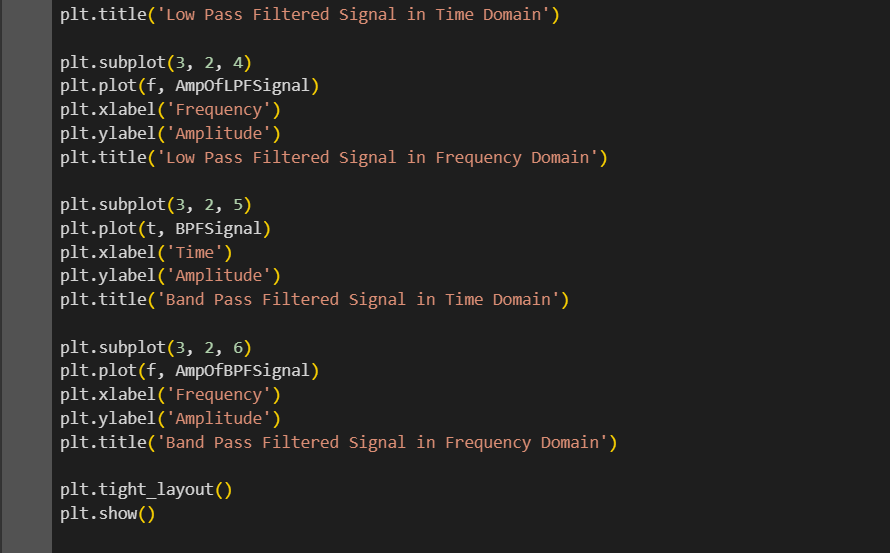
**

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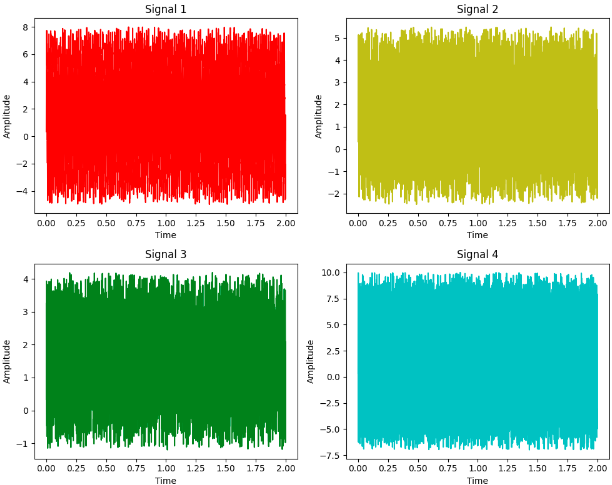
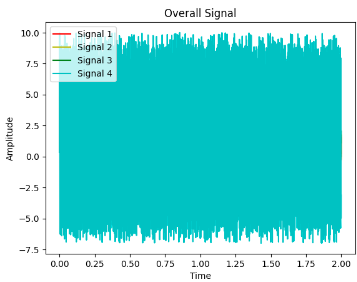
**

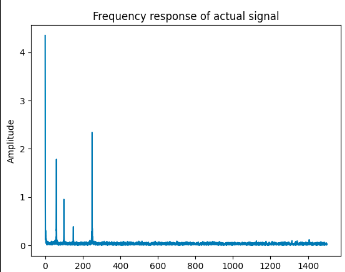
**

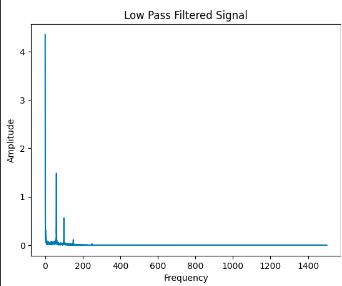
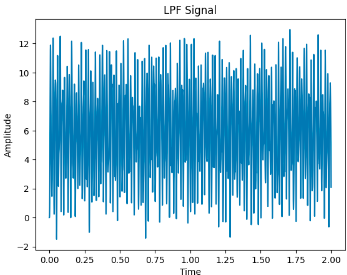


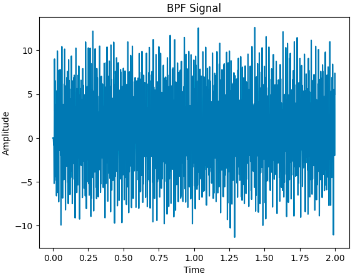
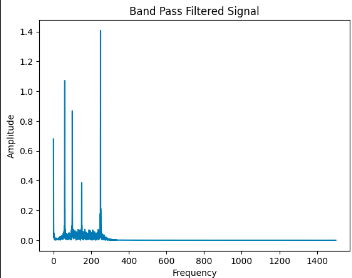


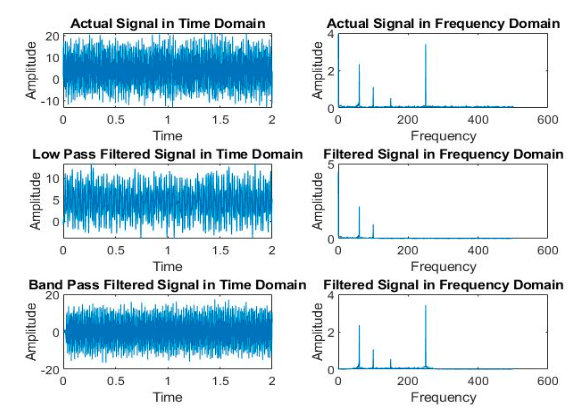
***This the desired result:***



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*This is the image comparing all signals generated in this process.*