1.Add a PLC Empty Project

2.Right Click on LibraryProject -> Properties -> Add Company Name, Title, Version as required

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3.Then Click Add Global Version Structure & Add POU Property Acess

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4.After Adding Check in project, version & Property will be added

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5.Dont Add main, task in Library project

6.Prepare Proper Structure

* Select a meaningful library name (required)
* Use templates to ensure consistency (optional)
* Use a familiar and uniform project structure, when possible (optional)
* Register a unique library namespace (required)
* Enter all project information (required)
* Apply the correct method for referencing other libraries correctly (required)
* Design smart external and internal interfaces (required)
* Implement a user-friendly error handling (required)
* Apply the correct method (protection) for deployment (required)
* Apply a consistent naming convention to get clean code (optional)
* When revising an existing library, consider the interface compatibility with previous versions.

6.About Auto Documentation in Codesys

<https://infosys.beckhoff.com/content/1033/tc3_plc_intro/4189451147.html?id=4782046637813269296>

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7.After Library Creation is done, Right click on Project -> Save as Library

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8. Save as per required Location

If Source Code should be available, then Select Library Files

If Source Code should be Hidden, then Compiled Library Files

A computer screen shot of a library project

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9.Now create a plc project, add the library

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If your library wants to displayed in particular folder then need to add an library description file

1.Open XML Template file

2.Add In Place of Main Category your Category Name

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3.GUID Name should be unique, generate a GUID online <https://www.guidgenerator.com/,add> it in below places as highlighted below

A screenshot of a computer code

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4.Then click Library Categories, add from Description File, select categories then click save as library

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