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| Software Construction Lab 1 |
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# Introduction

The lab is about creating a TV manager using the linked list. TV Manager is actually collection of YouTube channel. We have to organize the TV manager in such a way that It holds the all the channels in a linked list. This provides user with a capability to add new channels urls, delete the channels, replace the channel with new value, get the description of all the channels and play random video.

# Approach:

For linked list, the traditional approach has been used. The implementation has been done in PYTHON. The provided implementation is of Single linked list. For adding, I just checked that if there is no head, new node is head node. Otherwise, append the new node at end. For replace, first code checks that whether the required link exists or not. If it does, only then replacement would occur. Same approach has been followed for the deletion of the nodes.

**Streaming the YouTube Videos couldn’t be done. I wasn’t able to find the right tool/API to stream YouTube on Python. There are ways to play video, but that is only valid for Local Videos. Some API exist but they don’t provide with the streaming option. Instead, they return the data about the Video**

# Running the Code:

Code doesn’t require any separate tool. The main requirement is **Python 2.7.**If python is installed, user can easily run the file in Python’s own IDLE. The data inside the code is dummy data. No original URL or description has been passed. It is just invalid data to show the working.