1. Program Start
2. Import os module to run linux commands

import os

1. Get input from the user to select directory and store the value in variable named as “**selected\_dir**”

selected\_dir = input("Enter folder Name: ")

1. Execute **takelist.sh** file to take list of 3 sub-directories which is user entered the directory name

For example: if user entered the directory name that “**old\_backup**”

It file take list of content of “**old\_backup/**” directory and will be stored in a file named as “**first**”

It file take list of content of “**old\_backup/old\_backup/**” directory and will be stored in a file named as “**second**”

It file take list of content of “**old\_backup directory/old\_backup/old\_backup/**” and will be stored in a file named as “**third**”

os.system("bash takelist.sh")

1. Open “first” file in read mode and store the content in variable named as “**first\_file**”

first\_file = open("first","r")

1. Open “second” file in read mode store the content in variable named as “**second\_file**”

second\_file = open("second","r")

1. Open “third” file in read mode and store the content in variable named as “**third\_file**”

third\_file = open("third","r")

1. Create empty list variables to store content of **first**, **second**, **third** files

first\_file\_list = [ ]

second\_file\_list = [ ]

third\_file\_list = [ ]

1. Create a loop for store the contents of “**first**” file line by line in the list variable named as “**first\_file\_list**”

for i in first\_file:

first\_file\_list.append(i)

1. Create a loop for store the contents of “**second**” file line by line in the list variable named as “**second\_file\_list**”

for i in second\_file:

second\_file\_list.append(i)

1. Create a loop for store the contents of “**third**” file line by line in the list variable named as “**third\_file\_list**”

for i in third\_file:

third\_file\_list.append(i)

1. Close all the opened files

first\_file.close()

second\_file.close()

third\_file.close()

1. Create **i** loop to read the list variable named as **first\_file\_list**

for i in first\_file\_list:

1. Create **j** loop in inside **i** loop to compare **first\_file\_list** with **second\_file\_list**

for j in second\_file\_list:

1. Create **k** loop in inside **j** loop to compare **first\_file\_list** with **third\_file\_list** if the lines is present in same **first\_file\_list** and **second\_file\_list**

if i == j:

for k in third\_file\_list:

1. If the line present in **second\_file\_list** and **third\_file\_list**

if i == k:

1. Separate the files and directories name

i = i.split("\t")

i = i[1].split("\n”)

i = i[0]

Now the file and directory name stored in variable **i**

1. Then delete the selected file or directory in **old\_backup/old\_backup** which is stored in **i**

os.system(f"rm -rf {selected\_dir}/{selected\_dir}/{i}")

1. -Then delete the selected file or directory in **old\_backup/old\_backup/old\_backup** which is stored in **i**

os.system(f"rm -rf {selected\_dir}/{selected\_dir}/{selected\_dir}/{i}")

1. Exit program