20210310351036Z@cgpit-utu:~/Desktop/practical_file$ python3 program1.py
Enter your name : Saurabh Yadav
Welcome Saurabh Yadav To Python World.
20210310351036Z@cgpit-utu:~/Desktop/practical_file$

```
20210310351036 0@cgpit-utu:~/Desktop/practical_file

File Edit View Search Terminal Help
20210310351036 0@cgpit-utu:~/Desktop/practical_file$ python3 program2.py
[1, 2, 3, 4, 5, 6, 7]
Append : [1, 2, 3, 4, 5, 6, 7, 8]
[9, 10]
Extend : [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Insert : [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Remove [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
Clear : []
Index: 5
Count : 1
Sort : [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
Reverse : [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
Copy : [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]


Positive Indexing
1
23
133
3321
4
84
Negative Indexing
84
4
3321
133
23
1
Slicing Operation
[133, 3321, 4]
Updation on list element
[43434, 23, 133, 3321, 4, 84]
Single element deletion from list
[43434, 23, 133, 4, 84]
Multiple element deletion from list
[43434, 23, 133]
20210310351036 0@cgpit-utu:~/Desktop/practical_file$
```
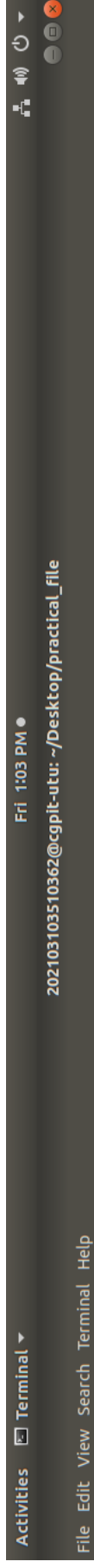
20210310351036362@cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

```
20210310351036362@cgpit-utu:~/Desktop/practical_file$ python3 program3.py
This is a tuple :  (1, 2, 3, 4, 5, 2, 2)
This is a tuple.count() program : 3
This is a tuple.index() program : 1
This is positive indexing of tuple : 2
This is negative indexing of tuple : 3
This is a slicing of the tuple : (3, 4, 5)
The tuple is converted to list so that it can be updarted. [1, 2, 3, 4, 5, 2, 2]
The list is updated and converted back to tuple : (1, 2, 3, 4, 5, 25, 2)
20210310351036362@cgpit-utu:~/Desktop/practical_file$
```

202103103510362@cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program4.py
This is a dictionary : {'brand': 'Ford', 'model': 'Mustang', 'year': 1964}
This is the updation of the dictionary : {'brand': 'Ford', 'model': 'Mustang', 'year': 1964, 'batch no.': 'A42DFS'}
The modal element is removed from the dictionary : {'brand': 'Ford', 'year': 1964, 'batch no.': 'A42DFS'}
The dictionary 2 is now cleared : {}
The dict3 is a copy of the dict 1: {'brand': 'Ford', 'year': 1964, 'batch no.': 'A42DFS'}
get() function : 1964
items() function : dict_items([('brand', 'Ford'), ('year', 1964), ('batch no.', 'A42DFS')])
keys() function : dict_keys(['brand', 'year', 'batch no.'])
popitem() function : {'brand': 'Ford', 'year': 1964}
202103103510362@cgpit-utu:~/Desktop/practical_file$

```
20210310353510362@cgpit-utu:~/Desktop/practical_file$ python3 program5.py
lower() : my name is saurabh yadav.
upper() : MY NAME IS SAURABH YADAV.
join() : This is a join() function
split() : ['MY', 'NAME', 'IS', 'Saurabh', 'Yadav.']
find() : -1
I like apples
20210310353510362@cgpit-utu:~/Desktop/practical_file$ 
```
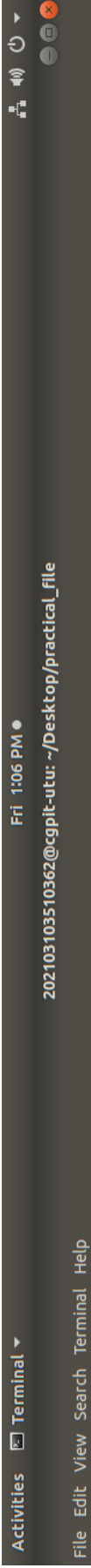
File Edit View Search Terminal Help

```
20210310351O362@cgpit-utu:~/Desktop/practical_file$ python3 program6.py
Calculator1
****************************************************************************************************

    1)Div
    2)Mul
    3)Add
    4)Sub
****************************************************************************************************

Enter operator : 1
Enter number 1 : 2
Enter number 2 : 2
The div is : 1.0
20210310351O362@cgpit-utu:~/Desktop/practical_file$ python3 program6.py
Calculator1
****************************************************************************************************

    1)Div
    2)Mul
    3)Add
    4)Sub
****************************************************************************************************

Enter operator : 2
Enter number 1 : 2
Enter number 2 : 2
The mul is : 4.0
20210310351O362@cgpit-utu:~/Desktop/practical_file$ python3 program6.py
Calculator1
****************************************************************************************************

    1)Div
    2)Mul
    3)Add
    4)Sub
****************************************************************************************************

Enter operator : 3
Enter number 1 : 3
Enter number 2 : 3
The sum is : 6.0
20210310351O362@cgpit-utu:~/Desktop/practical_file$ 
```

202103110351O362@cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

202103110351O362@cgpit-utu:~/Desktop/practical_file$ python3 program6.py
Calculator1
****

   1)Div
   2)Mul
   3)Add
   4)Sub

****

Enter operator : 4
Enter number 1 : 2
Enter number 2 : 1
The sub is : 1.0
202103110351O362@cgpit-utu:~/Desktop/practical_file$ ▯

```
202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program7.py
Enter the number of elements in list : 3
Enter :2
Enter :2
Enter :4
Enter the number you want to count : 2
The number 2 has occured 2 times in the entered list.
202103103510362@cgpit-utu:~/Desktop/practical_file$ ▯
```

202103103510362@cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program8.py
Enter the no. of elements you want in the list : 5
Enter the number : 1
Enter the number : 2
Enter the number : 3
Enter the number : 1
Enter the number : 2
Method 1
The minimum number in the list is 1
The maximum number in the list is 3

Method 2
The minimum number in the list is 1
The maximum number in the list is 3
202103103510362@cgpit-utu:~/Desktop/practical_file$ ▯

File Edit View Search Terminal Help

```
202103103510362@cgplt-utu:~/Desktop/practical_files python3 program9.py
The available functions are :

        1) Addition
        2) Subtraction
        3) Multiplication
        4) Transpose
        5) Exit

Choice : 1
Enter the values of the matrixfirst {0} will be the element of the rows
Matrix 1
Enter the number of rows of the matrix : 2
Enter the number of colnumns of the matrix : 2
Enter : 1
Enter : 2
Enter : 3
Enter : 4
Matrix 2
Enter : 4
Enter : 3
Enter : 2
Enter : 1
[5, 5]
[5, 5]
The available functions are :

        1) Addition
        2) Subtraction
        3) Multiplication
        4) Transpose
        5) Exit

Choice : 2
Enter the values of the matrixfirst {0} will be the element of the rows
Matrix 1
Enter the number of rows of the matrix : 2
Enter the number of colnumns of the matrix : 2
Enter : 2
Enter : 2
Enter : 2
Enter : 2
Matrix 2
Enter : 1
Enter : 1
Enter : 3
Enter : 3
[1, 1]
[-1, -1]
The available functions are :

        1) Addition
        2) Subtraction
        3) Multiplication
        4) Transpose
        5) Exit

Choice : 5
Thank You for using the program...
See you later
```

```
File  Edit  View  Search  Terminal  Help
20210310351036202cgpit-utu:~/Desktop/practical_file$ python3 program9.py
The available functions are :

        1) Addition
        2) Subtraction
        3) Multiplication
        4) Transpose
        5) Exit

Choice : 3
Enter the values of the matrixfirst [0] will be the element of the rows
Matrix 1
Enter the number of rows of the matrix : 3
Enter the number of colnumns of the matrix : 3
Enter : 12
Enter : 2112
Enter : 2
Enter : 21
Enter : 21
Enter : 3
Enter : 5
Enter : 623
Enter : 23
Matrix 2
Enter the number of rows of the matrix : 3
Enter the number of colnumns of the matrix : 3
Enter :

Enter only integer value

Enter : 34
Enter : 56
Enter : 23
Enter : 67
Enter : 34
Enter : 6
Enter : 34
Enter : 2
Enter : 34
[141980, 72484, 13016]
[2223, 1896, 711]
[42693, 21508, 4635]
The available functions are :

        1) Addition
        2) Subtraction
        3) Multiplication
        4) Transpose
        5) Exit

Choice : 5
Thank You for using the program...
See you later
Exiting........
20210310351036202cgpit-utu:~/Desktop/practical_file$
20210310351036202cgpit-utu:~/Desktop/practical_file$
```

202103103510362@cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program9.py
The available functions are :

    1) Addition
    2) Subtraction
    3) Multiplication
    4) Transpose
    5) Exit

Choice : 4
Enter the values of the matrixfirst {0} will be the element of the rows
Enter the number of rows of the matrix : 3
Enter the number of colnumns of the matrix : 3
Matrix
Enter : 1
Enter : 2
Enter : 3
Enter : 3
Enter : 2
Enter : 1
Enter : 1
Enter : 2
Enter : 3
Original matrix
[1, 2, 3]
[3, 2, 1]
[1, 2, 3]
Transporse of a matrix
[1, 3, 1]
[2, 2, 2]
[3, 1, 3]
The available functions are :

    1) Addition
    2) Subtraction
    3) Multiplication
    4) Transpose
    5) Exit

Choice : ▢

File Edit View Search Terminal Help

20210310351036262@cgpit-utu:~/Desktop/practical_files python3 program10.py
****
        1) Div
        2) Mul
        3) Add
        4) Sub
        5) Exit
****
Enter operator : 1
Enter number 1 : 2
Enter number 2 : 2
The div is : 1.0
****
        1) Div
        2) Mul
        3) Add
        4) Sub
        5) Exit
****
Enter operator : 2
Enter number 1 : 3
Enter number 2 : 3
The mul is : 9.0
****
        1) Div
        2) Mul
        3) Add
        4) Sub
        5) Exit
****
Enter operator : 3
Enter number 1 : 4
Enter number 2 : 5
The sum is : 9.0
****
        1) Div
        2) Mul
        3) Add
        4) Sub
        5) Exit
****
Enter operator : 4
Enter number 1 : 5
Enter number 2 : 2
The sub is : 3.0
****
        1) Div
        2) Mul

File Edit View Search Terminal Help

```
202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program11.py
Hello Saurabh
Hello Rakesh
Hello Pradeep
Hello Manish
202103103510362@cgpit-utu:~/Desktop/practical_file$
```

202103103510362@cgpit-utu:~/Desktop/practical_file

File Edit View Search Terminal Help

```
202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program12.py
Student name : saurabh
Stutent age : 18
Student branch : B.Tech CSE
Student city : Vapi
202103103510362@cgpit-utu:~/Desktop/practical_file$
```

2021031035103662@cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

2021031035103662@cgpit-utu:~/Desktop/practical_file$ python3 program13.py

Enter Account Number : 362
Enter Person Name : Saurabh Yadav
Enter Account Balance : 101
****
Enter Deposit Ammount : 1000
****

The Amount Credited.
The Account Balance is : 1101.0
****

Enter Withdrawal Ammount : 1
****

The Amount Debited.
The Account Balance is : 1100.0
****

Account Number :   362
Account Holder :   Saurabh Yadav
Account Balance :   1100.0
****
2021031035103662@cgpit-utu:~/Desktop/practical_file$
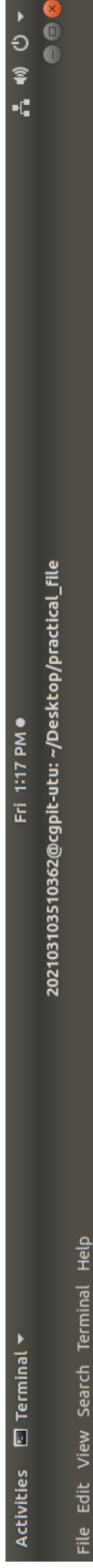
20210351035103620cgpit-utu:~/Desktop/practical_file$ python3 program14.py
The employee name is : Saurabh
The employee age is : 18
The employee lives in : Vapi
20210351035103620cgpit-utu:~/Desktop/practical_file$ □

202103103510362@cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

```
202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program15.py
Choose the option for the value you want to enter :
    1) Professor
    2) Lab Assistant
    3) Office Assistnt
    4) Peon
    5) Exit
Enter the option : 1
Employee Name : Jay Patel
Year of establish : 2003
Employee City : Bardoli
Enter the Designation : Ass. Professor
Enter the Highest Qualification : M.Tech EE
Enter area of research : Microprosessor
Year of experience : 10
Name of the Institute : AMTICS
Designation : Ass. Professor
Name : Jay Patel
Year of joining : 2003
Highest Qualification : M.Tech EE
Area of research : Microprosessor
Year of experience : 10
Name of Institute : AMTICS
City : Bardoli
202103103510362@cgpit-utu:~/Desktop/practical_file$ 
```

202103103510362@cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

```
202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program15.py
Choose the option for the value you want to enter :
    1) Professor
    2) lab Assistant
    3) Office Assistnt
    4) Peon
    5) Exit
Enter the option : 2
Employee Name : Priesh Patel
Year of establish : 2015
Employee City : Bardoli
Enter the Highest Qualification : M.Tech ML
Enter additional skills : Badminton
Year of joining : 2016
Name of the Institute : AMTICS
Designation : Lab Assistant
Name : Priesh Patel
Year of extablish :  2015
Year of joining 2016
Highest Qualification : M.Tech ML
Name of institute : AMTICS
Additional Skills : Badminton
City : Bardoli
202103103510362@cgpit-utu:~/Desktop/practical_file$
```

File Edit View Search Terminal Help

202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program15.py
Choose the option for the value you want to enter :
    1) Professor
    2) lab Assistant
    3) Office Assistnt
    4) Peon
    5) Exit
Enter the option : 3
Employee Name : Keyur Surti
Year of establish : 1996
Employee City : Bardoli
Enter the Highest Qualification : Civil
Year of Joining : 2012
Name of the Institute : AMTICS
Designation : Office_assistant
Name : Keyur Surti
Qualtfcation : Civil
Year of establish : 1996
Year of joining : 2012
Name of insttiute : AMTICS
Bardoli
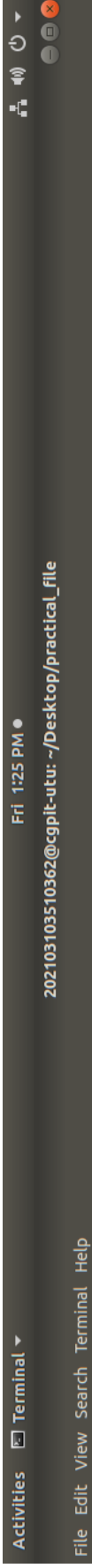202103103510362@cgpit-utu:~/Desktop/practical_file$ ☐

File Edit View Search Terminal Help

20210310351036202@cgpit-utu:~/Desktop/practical_file$ python3 program15.py
Choose the option for the value you want to enter :
    1) Professor
    2) Lab Assistant
    3) Office Assistnt
    4) Peon
    5) Exit

Enter the option : 4
Employee Name : Peon 2
Year of establish : 2000
Employee City : Bardoli
Enter the Highest Qualification : 12
Year of joining : 2020
Name of the Institute : AMTICS
Designation : Office_assistant
Name : Peon 2
Qualifcation : 12
Year of establish : 2000
Year of joining : 2020
Name of institute : AMTICS
Bardoli
20210310351036202@cgpit-utu:~/Desktop/practical_file$ ▯

202103103510362@cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program16.py
****
Enter student enroll : 362
Enter student name :Saurabh Yadav
Enter student course :B.Tech CSE
Enter number of learnings in C : 2
Enter Learning 1 : Arrays
Enter Learning 2 : Pointers
Enter professor name = Vishvajit
Enter number of learnings in Python : 2
Enter Learning 1 : List
Enter Learning 2 : Dictionary
Enter professor name = Vishvajit
Enter number of learnings in Web_Designing : 3
Enter Learning 1 : HTML
Enter Learning 2 : CSS
Enter Learning 3 : JavaScript
Enter professor name = Jinal Tandel

Enrollment number of student : 362
Name of the student : Saurabh Yadav
Course : Saurabh Yadav
Learnings :
C : ['Arrays', 'Pointers']
Python : ['List', 'Dictionary']
Web Designing : ['HTML', 'CSS', 'JavaScript']
Professors :
C : Vishvajit
Python : Vishvajit
Web Designing : Jinal Tandel
202103103510362@cgpit-utu:~/Desktop/practical_file$ ☐

```
2021031035103362@cgpit-utu:~/Desktop/practical_file$ python3 program17.py
I am not a Hidden Varaible
Traceback (most recent call last):
  File "program17.py", line 14, in <module>
    print(obj.__ThisIsHidden())
AttributeError: 'Base' object has no attribute '__ThisIsHidden'
2021031035103362@cgpit-utu:~/Desktop/practical_file$ 
```

File Edit View Search Terminal Help

202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program18.py
Area of square : 25
Area of circle : 314.1
Area of triangle : 5.0
Area of recrtangle : 50
202103103510362@cgpit-utu:~/Desktop/practical_file$ ▢

File Edit View Search Terminal Help

202103510362@cgpit-utu:~/Desktop/practical_file$ python3 program19.py
Inside from Parent
Inside from Child
202103510362@cgpit-utu:~/Desktop/practical_file$ ☐

```
202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program20.py
Enter any : 23
The Value is an integer value
202103103510362@cgpit-utu:~/Desktop/practical_file$ python3 program20.py
Enter any : adsa
The value is not an integer
202103103510362@cgpit-utu:~/Desktop/practical_file$
```

20210310351036200cgpit-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

```
2021031035103620cgpit-utu:~/Desktop/practical_file$ python3 program21.py
Enter the value : 12
The program executed properly.
2021031035103620cgpit-utu:~/Desktop/practical_file$ python3 program21.py
Enter the value : 21
Traceback (most recent call last):
  File "program21.py", line 13, in <module>
    raise Exception("The number shouldn't be an odd integer")
Exception: The number shouldn't be an odd integer
2021031035103620cgpit-utu:~/Desktop/practical_file$ 
```

20210310351 0362@cgpit-utu:~/Desktop/practical_file

File Edit View Search Terminal Help
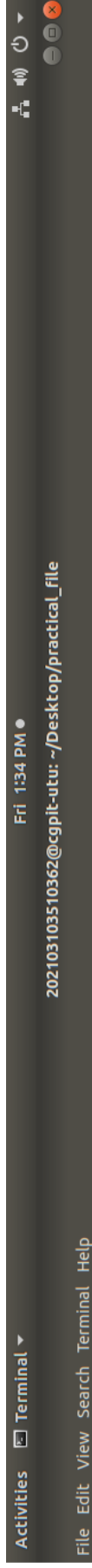
20210310351 0362@cgpit-utu:~/Desktop/practical_file$ python3 program22.py

Yeah ! Your answer is : 1
This is always executed
Sorry ! You are dividing by zero
This is always executed
20210310351 0362@cgpit-utu:~/Desktop/practical_file$

```
2021031035103622@cgpit-utu:~/Desktop/practical_file$ python3 program23.py

Please enter file extension
Enter the file name : program23.txt
78 : 1
44 : 2
2 : 1
13 : 1
90 : 1
53 : 1
-94 : 2
27 : 1
-96 : 2
70 : 1
-76 : 1
55 : 1
-21 : 1
85 : 1
5 : 1
-66 : 1
34 : 1
-26 : 1
-16 : 1
-45 : 1
-14 : 1
11 : 1
94 : 1
-49 : 1
-30 : 1
82 : 1
18 : 1
Do you want to continue (Y/N): n
Exiting the program.
2021031035103622@cgpit-utu:~/Desktop/practical_file$
```

```
78
44
2
13
90
53
-94
27
-96
-94
70
-76
44
55
-21
85
5
-66
34
-26
-16
-45
-14
11
94
-49
-30
-96
82
18
```

File Edit View Search Terminal Help

202103103510362@cgplt-utu:~/Desktop/practical_file$ python3 program24.py
Please enter file extension
Enter the file name : program24.txt
Enter the number of lines you want to see : 6

The particular lines are :

1) 78

2) 44

3) 2

4) 13

5) 90

6) 53

202103103510362@cgplt-utu:~/Desktop/practical_file$

78
44
2
13
90
53
-94
27
-96
-94
70
-76
44
55
-21
85
5
-66
34
-26
-16
-45
-14
11
94
-49
-30
-96
82
18

2021031035103652@cgpit-utu:~/Desktop/practical_file

File Edit View Search Terminal Help

```
2021031035103652@cgpit-utu:~/Desktop/practical_file$ python3 program25.py
Enter the number of courses you want to add : 3
Enter course 1 name : C
Enter course 2 name : Python
Enter course 3 name : C++
The course names are saved into program25.txt file
2021031035103652@cgpit-utu:~/Desktop/practical_file$
```

```
Course 1 : C
Course 2 : Python
Course 3 : C++
```

File Edit View Search Terminal Help
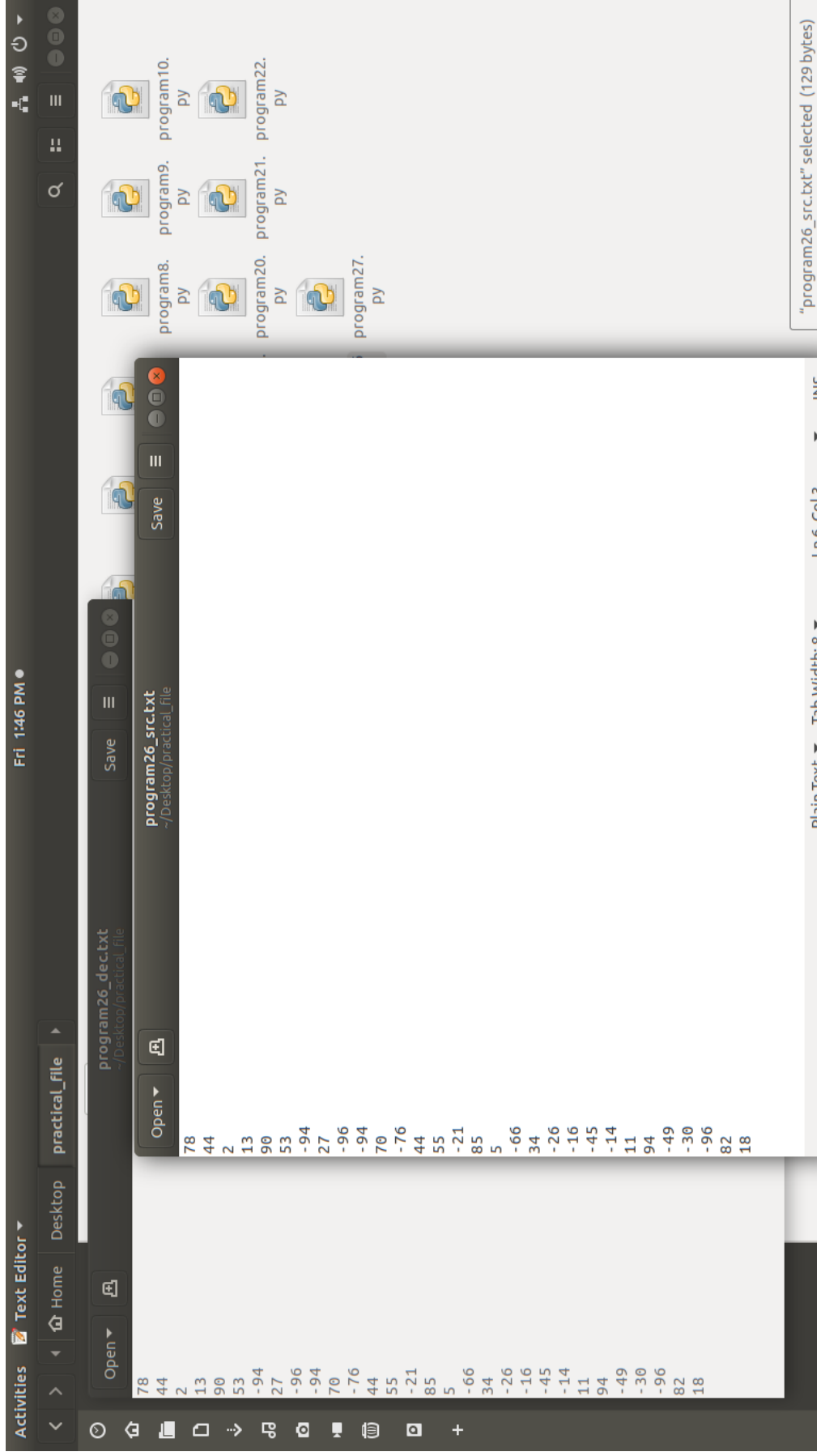
20210310351036 2@cgpit-utu:~/Desktop/practical_file$ python3 program26.py
Please enter file extension
Enter the source file name : program26_src.txt
Enter the destination file name : program26_dec.txt
The content of the file program26_src.txt is copied to program26_dec.txt.
20210310351036 2@cgpit-utu:~/Desktop/practical_file$

program10.py　program9.py　program8.py

program22.py　program21.py　program20.py　program27.py

"program26_src.txt" selected (129 bytes)

program26_src.txt
~/Desktop/practical_file

Open ▾　Save

78
44
2
13
90
53
-94
27
-96
-94
70
-76
44
55
5
-21
85
5
-66
34
-26
-16
-45
-14
11
94
-49
-30
-96
82
18

Plain Text ▾　Tab Width: 8 ▾　Ln 6, Col 3　INS

program26_dec.txt
~/Desktop/practical_file

Open ▾　Save

78
44
2
13
90
53
-94
27
-96
-94
70
-76
44
55
5
-66
34
-26
-16
-45
-14
11
94
-49
-30
-96
82
18

20210310351O362@cgplt-utu: ~/Desktop/practical_file

File Edit View Search Terminal Help

20210310351O362@cgplt-utu:~/Desktop/practical_file$ python3 program27.py
The file A.txt created sucessfully.
The file B.txt created sucessfully.
The file C.txt created sucessfully.
The file D.txt created sucessfully.
The file E.txt created sucessfully.
The file F.txt created sucessfully.
The file G.txt created sucessfully.
The file H.txt created sucessfully.
The file I.txt created sucessfully.
The file J.txt created sucessfully.
The file K.txt created sucessfully.
The file L.txt created sucessfully.
The file M.txt created sucessfully.
The file N.txt created sucessfully.
The file O.txt created sucessfully.
The file P.txt created sucessfully.
The file Q.txt created sucessfully.
The file R.txt created sucessfully.
The file S.txt created sucessfully.
The file T.txt created sucessfully.
The file U.txt created sucessfully.
The file V.txt created sucessfully.
The file W.txt created sucessfully.
The file X.txt created sucessfully.
The file Y.txt created sucessfully.
The file Z.txt created sucessfully.
20210310351O362@cgplt-utu:~/Desktop/practical_file$

Desktop   practical_file   **outputfolder**

Home

Recent
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Trash
Saurabh
Other Locations

A.txt   B.txt   C.txt   D.txt   E.txt   F.txt   G.txt   H.txt   I.txt   J.txt   K.txt   L.txt

M.txt   N.txt   O.txt   P.txt   Q.txt   R.txt   S.txt   T.txt   U.txt   V.txt   W.txt   X.txt

Y.txt   Z.txt