

## FINAL REPORT

# Social Media Utility Tool

Submitted by

**SHRIYANSHI BARANWAL (181500691)**

**PRASHANT ASTHANA (181500487)**

**TANISHQ TRIPATHI (181500751)**

In partial fulfillment of the

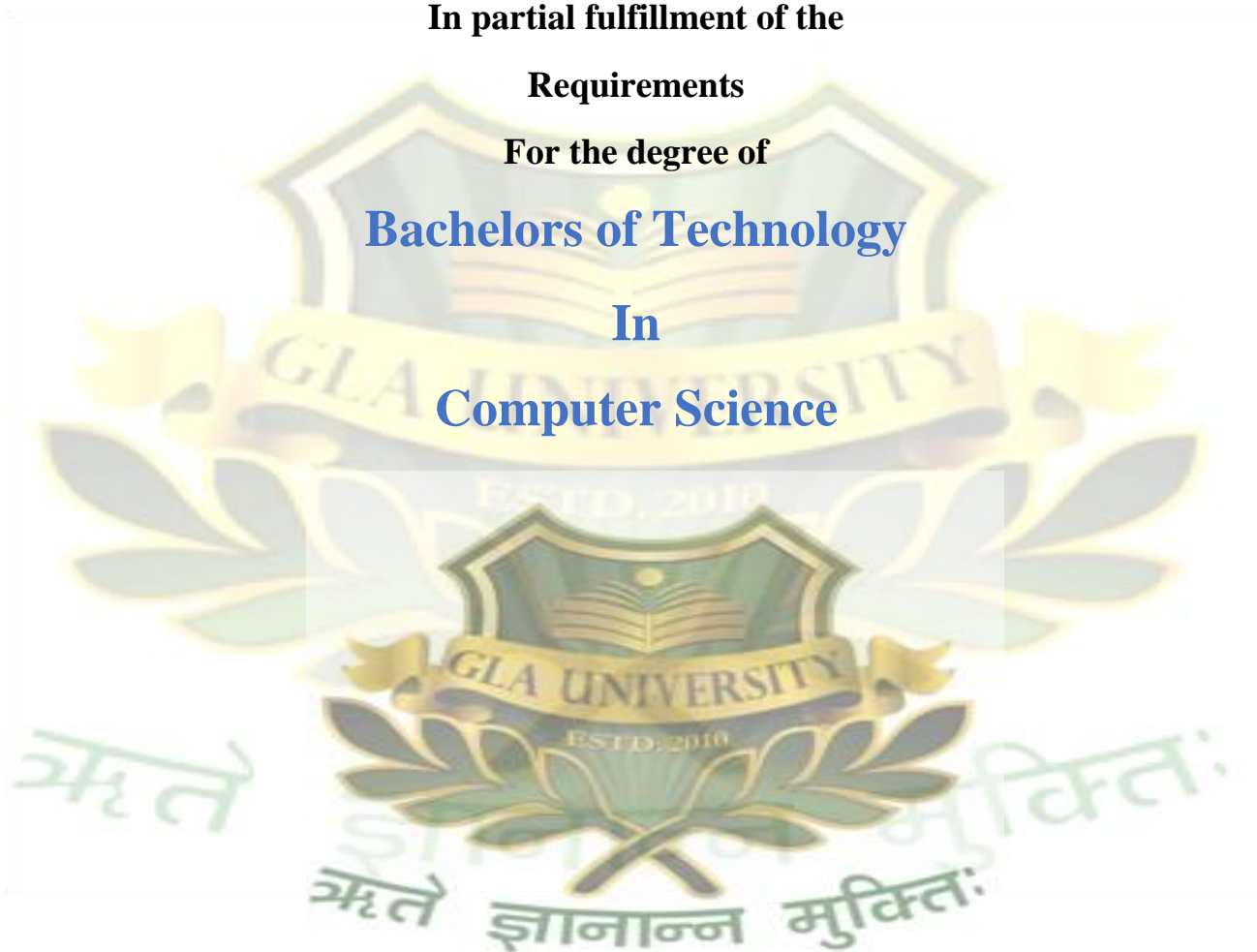
Requirements

For the degree of

**Bachelors of Technology**

**In**

**Computer Science**



*Supervised By*

**Dr. Manoj Varshney**

*Department of Training and Development*

*GLA University, Mathura*

## TOPIC

# SOCIAL MEDIA UTILITY TOOL



# CONTENT

---

- Declaration
- Acknowledgment
- Abstract
- Problem Statement
- Reason for selecting the topic
- Introduction
- Language Used
- About Tkinter
- Objective& Requirements
- Running Project Screenshots
- Code Screenshots
- Future Scope
- Testing technology to be used
- The Contributions our project is going to make
- Scope for extension into major project
- Conclusion
- References

## DECLARATION

---

We hereby declare that the work which is being presented in the MINI PROJECT “**Social Media Utility Tool**”, will be fulfilled of the requirements for Mini Project viva voce, is an authentic record of my work carried under the supervision of **Dr. Manoj Varshney**.

Course: Bachelor of Technology

Branch: Computer Science

Year: III

Semester: 6<sup>th</sup>

Name of Candidate (Roll No):

- SHRIYANSHI BARANWAL (181500691)
- PRASHANT ASTHANA (181500487)
- TANISHQ TRIPATHI (181500751)

Signature of Candidates:

## ACKNOWLEDGMENT

---

We express our sincere indebtedness towards our mentor, **Dr. Manoj Varshney**, Computer Science & Engineering. GLA University, Mathura for his invaluable guidance, suggestions, and supervision throughout the work. Without his kind patronage and guidance, the project would not have taken shape. We would also like to express our gratitude and sincere regards for his kind approval of the project, time-to-time counseling, and pieces of advice.

We would also like to thank our HOD **Mr. Anand Singh Jalal** Department of Computer Science & Engineering. GLA University, Mathura for her expert advice and counseling from time to time.

We owe sincere thanks to all the faculty members in the department of Computer Science & Engineering for their kind guidance and encouragement from time to time.

The logo of GLA University is a large, faint watermark in the background. It features a shield with a book inside, a banner across the middle with the text 'GLA UNIVERSITY', and the text 'ESTD. 2010' below the banner. At the bottom, there is a Sanskrit motto in Devanagari script: 'अहं ते ज्ञानान्न मुक्तिः'.

**Shriyanshi Baranwal(181500691)**

**Prashant Asthana(181500487)**

**Tanishq Tripathi(181500751)**

## ABSTRACT

---

In our project we are creating an application to combine all basic applications in a single utility. With this one can easily schedule a WhatsApp message, send email to a particular person directly, search anything on Google or can directly download a YouTube video also. The general problems to be addressed by the Social Media Utility Tool is the following:

- a. To provide reliable and easy to use Social Media tools that manage an individual user's need.

While a number of commercially available and public domain products have solved these problems, the Social Media Utility Tool provides a solution with certain functional improvements over existing tools. Specific problem areas are the following:

- a. Scheduling message sending on a certain time.
- b. Sending email direct through the application.
- c. Search anything from google.
- d. Search any video on YouTube.

Here we will be using python programming language for frontend and Tkinter frame work for GUI.



## PROBLEM STATEMENT

---

The general problems to be addressed by the Social Media Utility Tool are the following:

- a. To provide reliable and easy to use Social Media tools that manage an individual user's need.

While a number of commercially available and public domain products have solved these problems, the Social Media Utility Tool provides a solution with certain functional improvements over existing tools. Specific problem areas are the following:

- a. Scheduling message sending on a certain time.
- b. Sending email direct through the application.

The Social Media Utility Tool addresses the requirements of a particular customer. One needs a tool with a collection of features not available in any single existing tool. This aspect of the problem is one of combining a set of existing features in a way that the features have yet to be combined in another product.

Here we will be using Python for building our application.

## REASON FOR SELECTING THE TOPIC

---

Basically Python has multiple features: -

1. Python's code is easy to read and understand
2. Python is quick
3. Python is Compatible
4. Facilitates Test-Driven Development
5. Strong Standard Library
6. Python Supports Big Data
7. Strong Supportive Community and Corporate Sponsors

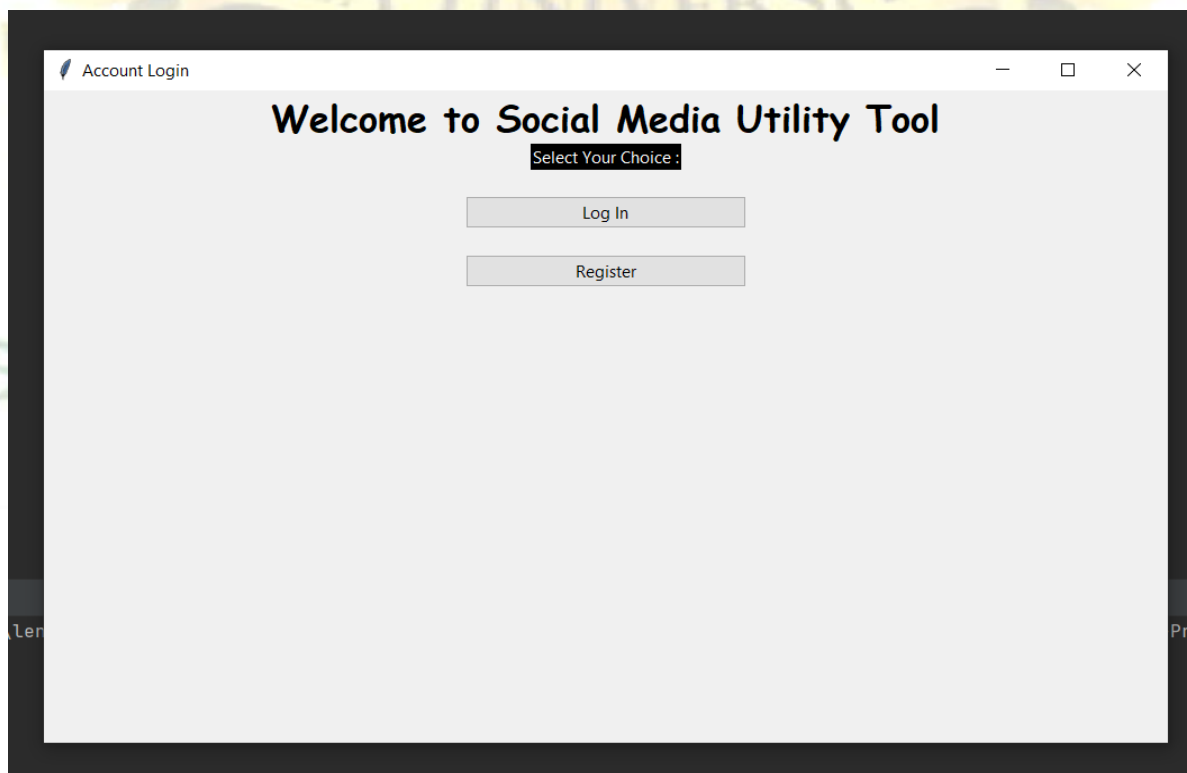
The technology we are going to use is Python and Tkinter. Our main objective for selecting this platform was to learn about it. Python library helps you quickly and easily experiment, build UIs, add features, and fix bugs faster.

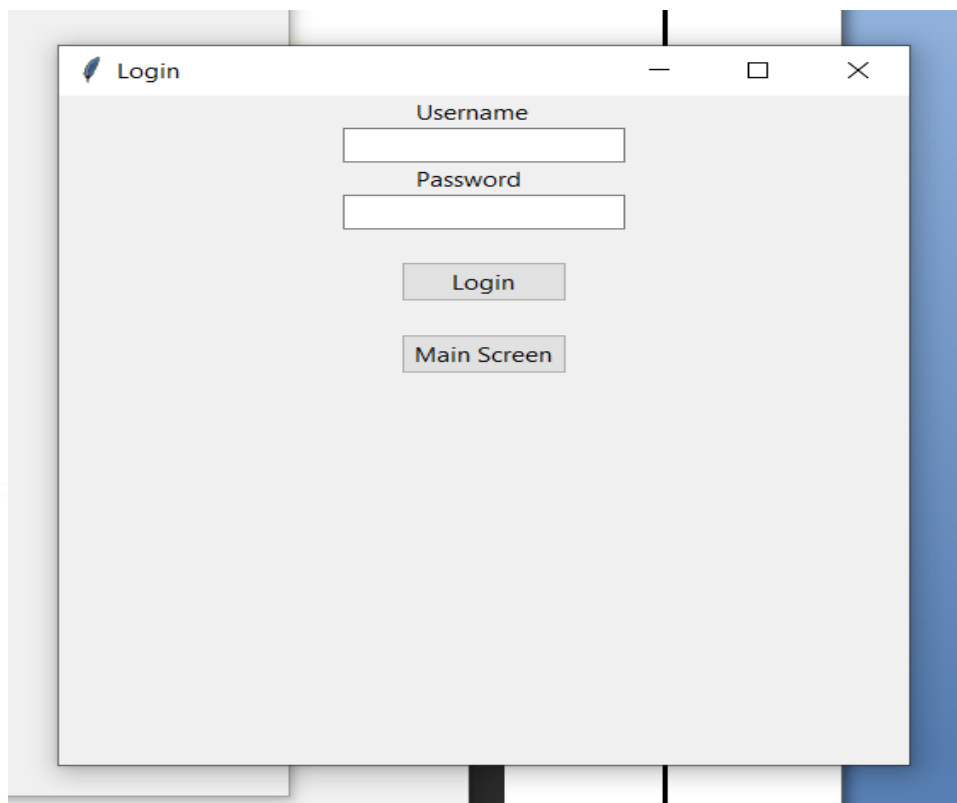


# INTRODUCTION

For our project we are creating an application to combine all basic applications in a single utility. Through the application you can easily schedule a WhatsApp message, send email to a particular person, directly search anything on Google or can directly download a you tube video also.

1. **Home Page**-Here we will add 2 options, login and register.
2. **Login Page/Register Page**- By using our credentials i.e., Id & valid password we can login to the welcome page. Here we can also create the new password in case we forgot the old one and can also redirect to the previous page i.e., home page.
3. **Welcome Page**-Here we will and the options for WhatsApp, Gmail, google search, YouTube search.





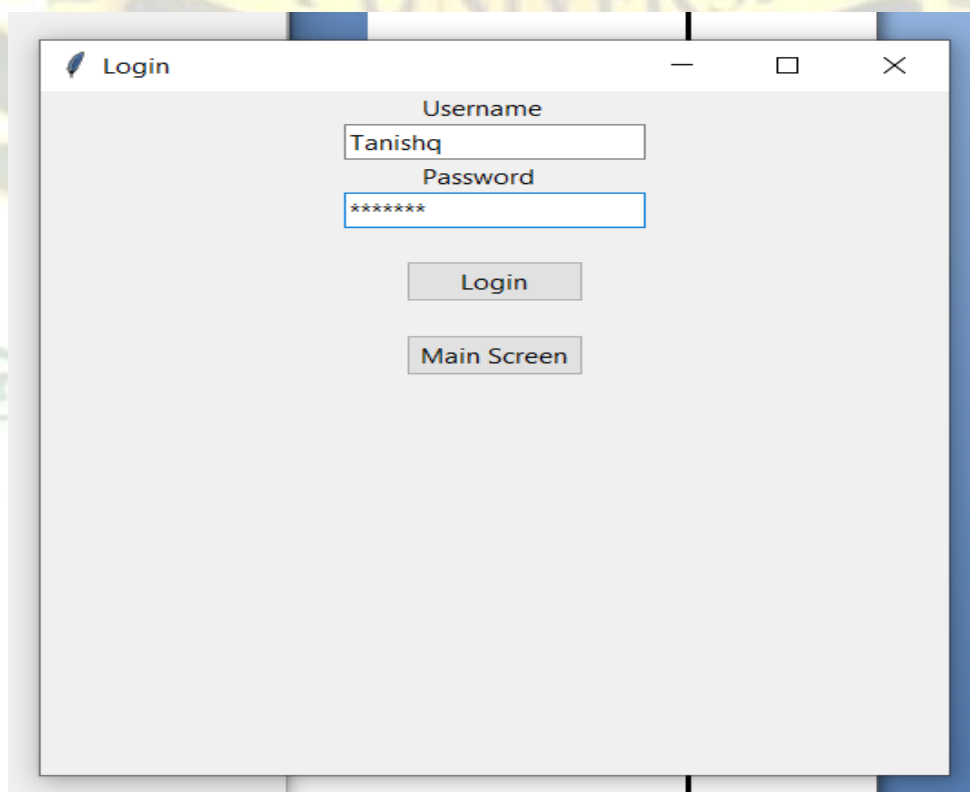
A screenshot of a 'Login' window. The window has a title bar with a feather icon, the text 'Login', and standard window controls (minimize, maximize, close). The main area is light gray and contains two input fields: 'Username' and 'Password'. Below these fields are two buttons: 'Login' and 'Main Screen'.

Username

Password

Login

Main Screen



A second screenshot of the 'Login' window, showing it after some input. The 'Username' field now contains the text 'Tanishq' and the 'Password' field contains seven asterisks '\*\*\*\*\*'. The 'Login' and 'Main Screen' buttons remain below the fields.

Username

Password

Login

Main Screen

## LANGUAGE USED

---

### PYTHON:



Python is an interpreted, high-level and general-purpose programming language. Python's design philosophy emphasizes code readability with its notable use of significant whitespace. Its language constructs and object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects. Python is dynamically typed and garbage-collected. It supports multiple programming paradigms, including structured (particularly, procedural), object-oriented, and functional programming. Python is often described as a "batteries included" language due to its comprehensive standard library. Python is meant to be an easily readable language. Its formatting is visually uncluttered, and it often uses English keywords where other languages use punctuation. Unlike many other languages, it does not use curly brackets to delimit blocks, and semicolons after statements are optional. It has fewer syntactic exceptions and special cases than C or Pascal.

Python is a general-purpose programming language. Hence, we can use the programming language for developing both desktop and web applications. Also, we can use Python for developing complex scientific and numeric applications. Python is designed with features to facilitate data analysis and visualization.

#### Reason for selecting Python:

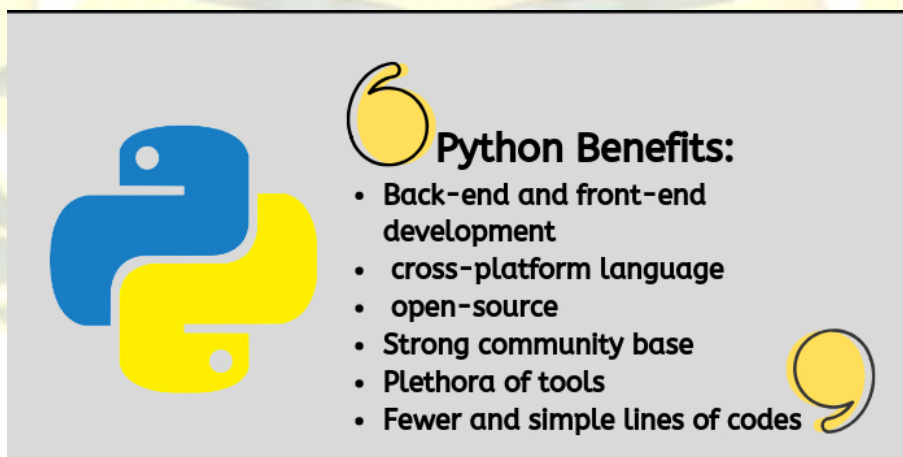
- Readable and Maintainable Code
- Multiple Programming Paradigms
- Compatible with Major Platforms and Systems
- Robust Standard Library
- Many Open-Source Frameworks and Tools
- Simplify Complex Software Development
- Adopt Test Driven Development

Additionally, Python supports the use of modules and packages, which means that programs can be designed in a modular style and code can be reused across a variety of projects. Once you've developed a module or package you need, it can be scaled for use in other projects, and it's easy to import or export these modules.

One of the most promising benefits of Python is that both the standard library and the interpreter are available free of charge, in both binary and source form. There is no exclusivity either, as Python and all the necessary tools are available on all major platforms. Therefore, it is an enticing option for developers who don't want to worry about paying high development costs.

If this description of Python over your head, don't worry. You'll understand it soon enough. What you need to take away from this section is that Python is a programming language used to develop software on the web and in app form, including mobile. It's relatively easy to learn, and the necessary tools are available to all free of charge.

That makes Python accessible to almost anyone. If you have the time to learn, you can create some amazing things with the language.



## ABOUT TKINTER (LIBRARY IN PYTHON)

---



Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.

Tk/Tcl has long been an integral part of Python. It provides a robust and platform independent windowing toolkit, that is available to Python programmers using the tkinter package, and its extension, the tkinter.tix and the tkinter.ttk modules.

The tkinter package is a thin object-oriented layer on top of Tcl/Tk. To use tkinter, you don't need to write Tcl code, but you will need to consult the Tk documentation, and occasionally the Tcl documentation. tkinter is a set of wrappers that implement the Tk widgets as Python classes. In addition, the internal module `_tkinter` provides a threadsafe mechanism which allows Python and Tcl to interact.

Most of the time, tkinter is all you really need, but a number of additional modules are available as well. The Tk interface is located in a binary module named `_tkinter`. This module contains the low-level interface to Tk, and should never be used directly by application programmers. It is usually a shared library (or DLL), but might in some cases be statically linked with the Python interpreter.

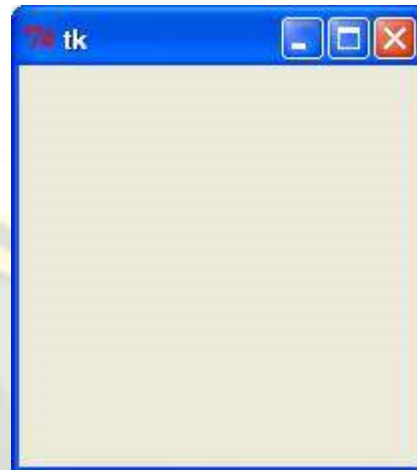
Creating a GUI application using Tkinter is an easy task. All you need to do is perform the following steps –

- Import the *Tkinter* module.
- Create the GUI application main window.
- Add one or more of the above-mentioned widgets to the GUI application.
- Enter the main event loop to take action against each event triggered by the user.

Example:

```
#!/usr/bin/python  
import Tkinter  
top = Tkinter.Tk()  
# Code to add widgets will go here...  
top.mainloop()
```

This would create a following window –





## OBJECTIVE & REQUIREMENTS

---

### Objective: -

The main objective of creating such an application is to combine all basic applications in a single utility. Through the application one can easily schedule a WhatsApp message, send email to a particular person, directly search anything on Google or can directly download a YouTube video also. The Social Media Utility Tool addresses the requirements of a particular customer. One needs a tool with a collection of features not available in any single existing tool. This aspect of the problem is one of combining a set of existing features in a way that the features have yet to be combined in another product.

### Hardware: -

OS: - Mac OSX 10.10+ / Windows 7/8/10

RAM: - 4GiB Recommended

Hard Drive: -1GiB of available disk Space minimum (700MiB for IDE)

Screen Resolution: -1280x800 screen resolution

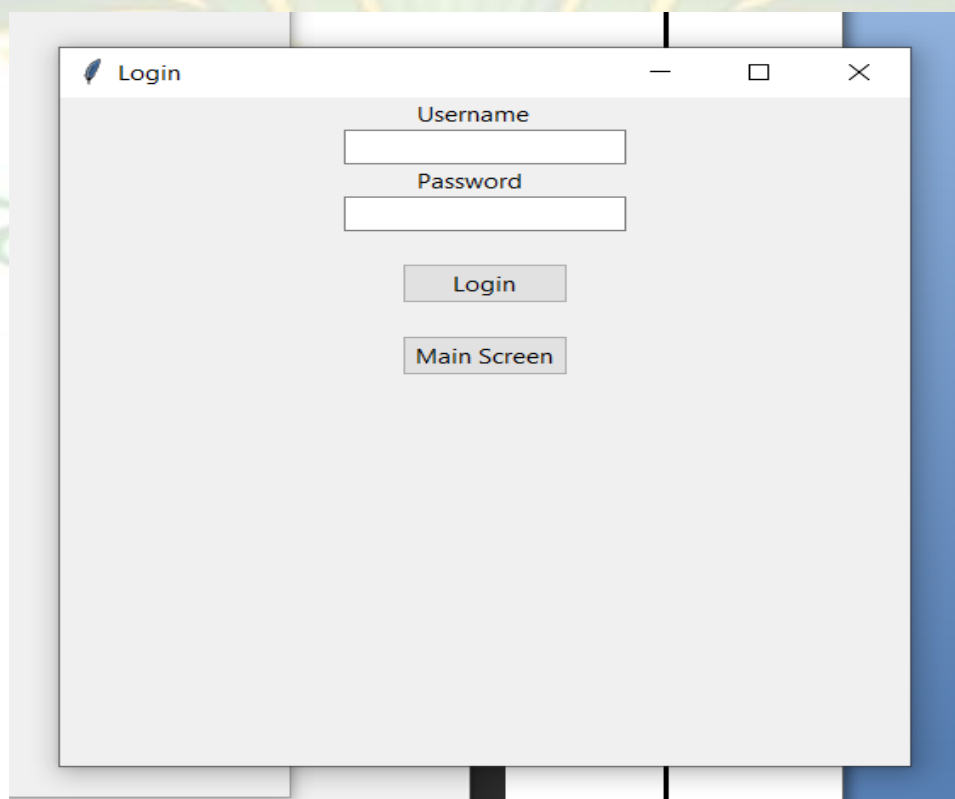
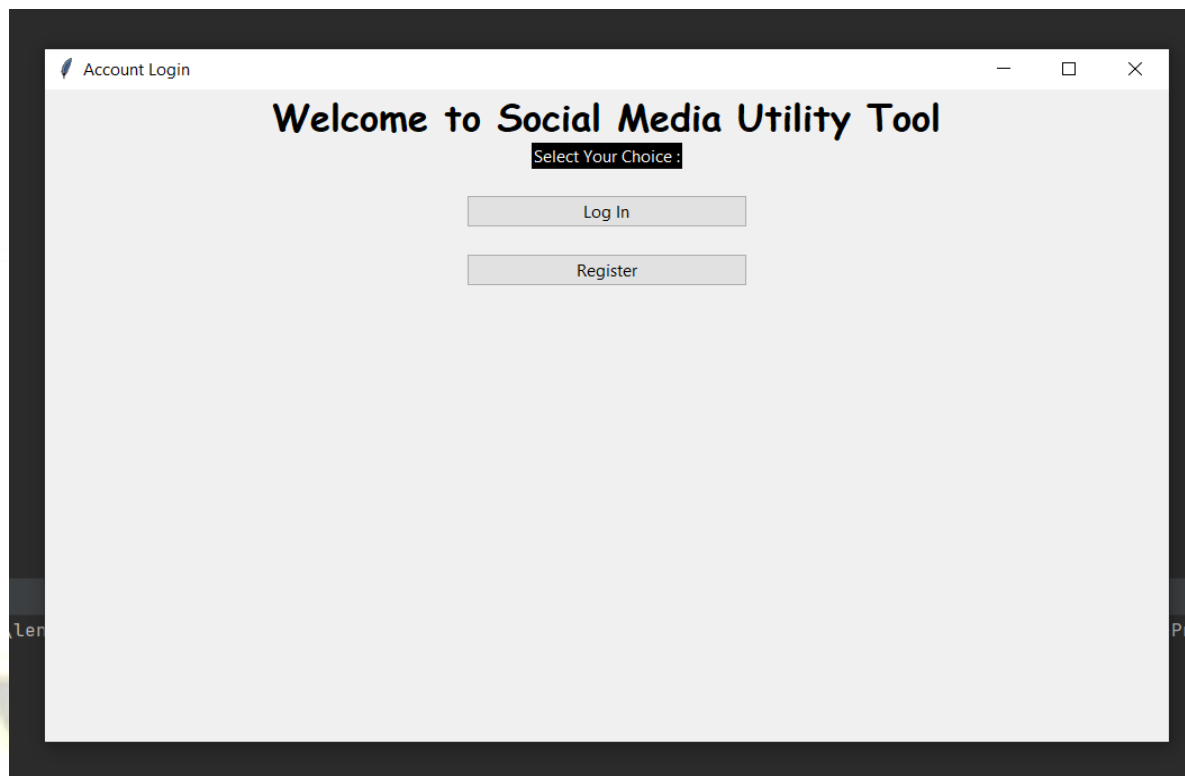
Processor: -At least i3 8<sup>th</sup> gen 1.6GHz or Faster Processor

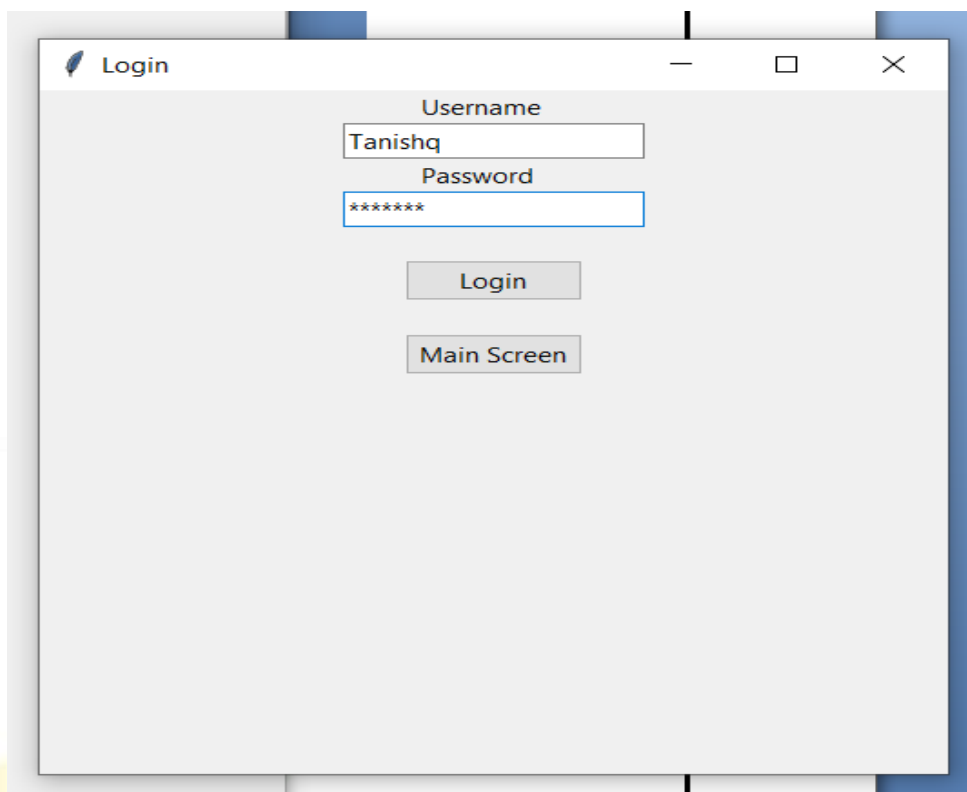
### Software: -

PyCharm CE

Visual Studio Code

## RUNNING PROJECT SCREENSHOTS





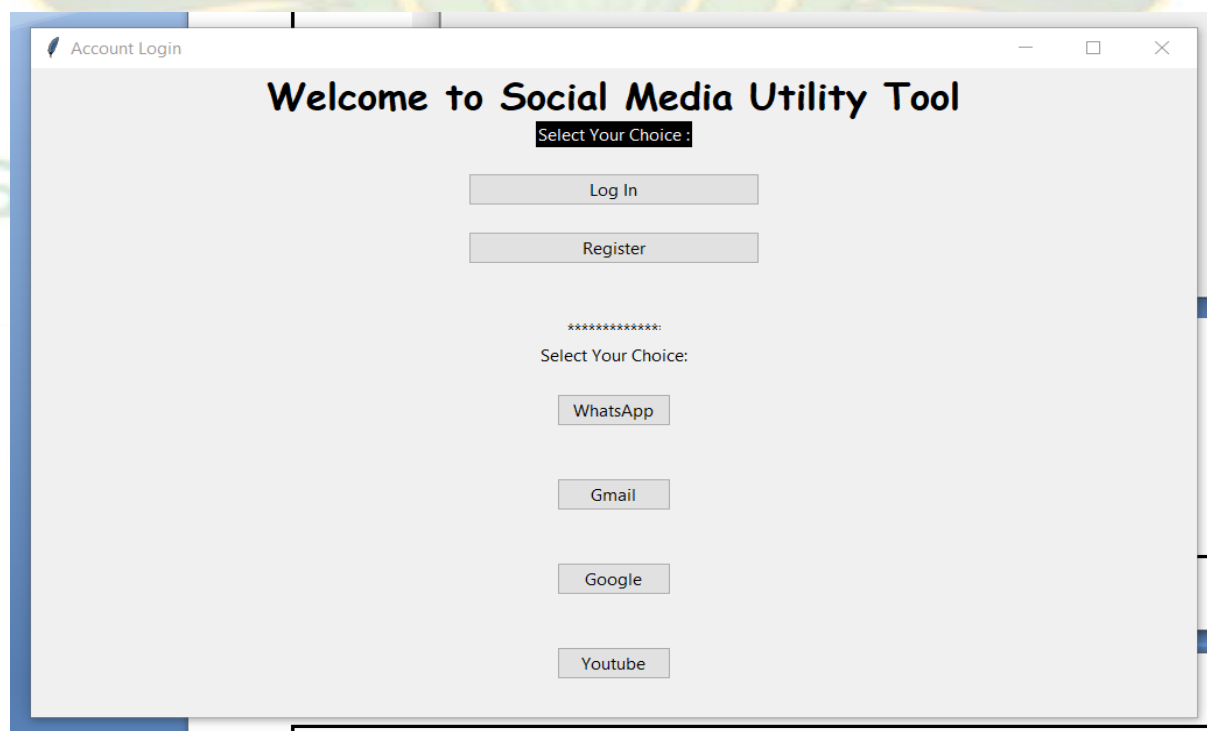
A screenshot of a 'Login' window. The window has a title bar with a feather icon, the text 'Login', and standard window controls. Inside, there are two input fields: 'Username' containing 'Tanishq' and 'Password' containing '\*\*\*\*\*'. Below these are two buttons: 'Login' and 'Main Screen'.

Username  
Tanishq

Password  
\*\*\*\*\*

Login

Main Screen



A screenshot of an 'Account Login' window. The window has a title bar with a feather icon, the text 'Account Login', and standard window controls. The main content area displays 'Welcome to Social Media Utility Tool' in bold. Below this is a label 'Select Your Choice:' followed by two buttons: 'Log In' and 'Register'. Further down, after another 'Select Your Choice:' label, are four buttons: 'WhatsApp', 'Gmail', 'Google', and 'Youtube'.

Account Login

**Welcome to Social Media Utility Tool**

Select Your Choice:

Log In

Register

\*\*\*\*\*:

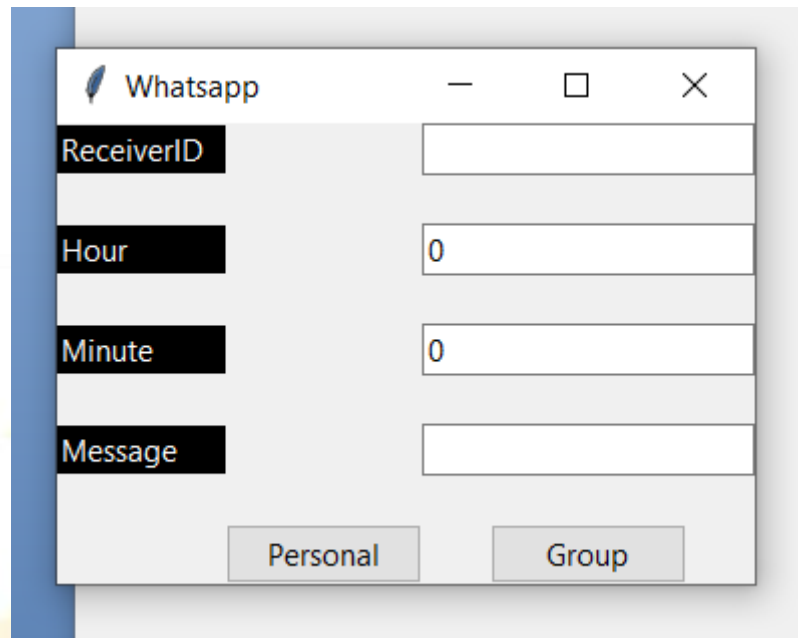
Select Your Choice:

WhatsApp

Gmail

Google

Youtube



Whatsapp

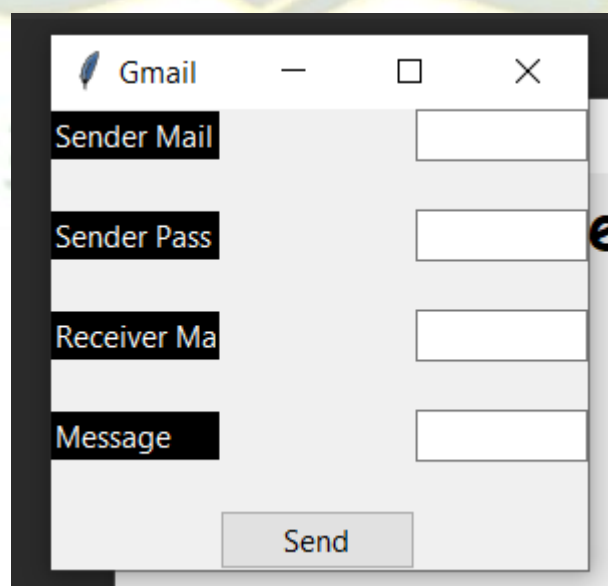
ReceiverID

Hour 0

Minute 0

Message

Personal Group



Gmail

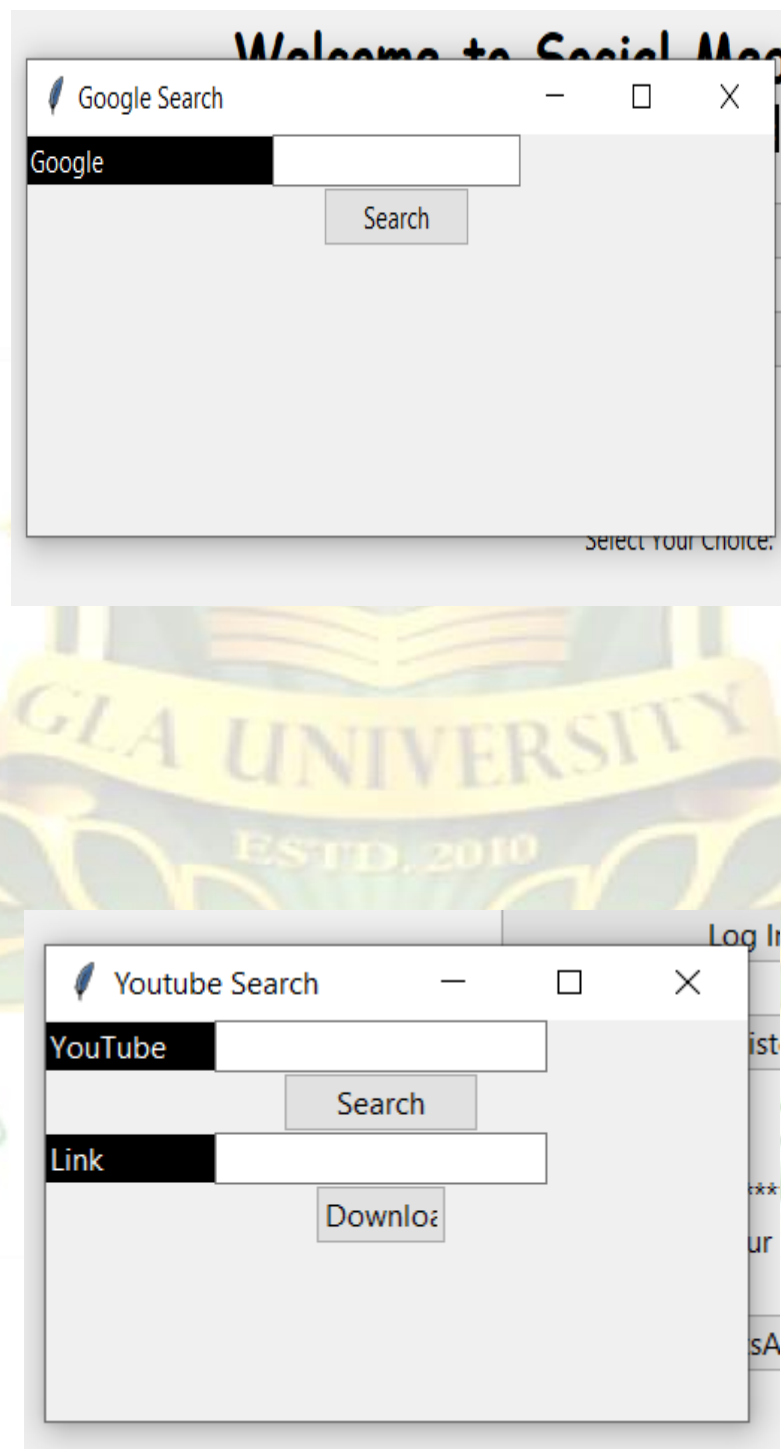
Sender Mail

Sender Pass

Receiver Ma

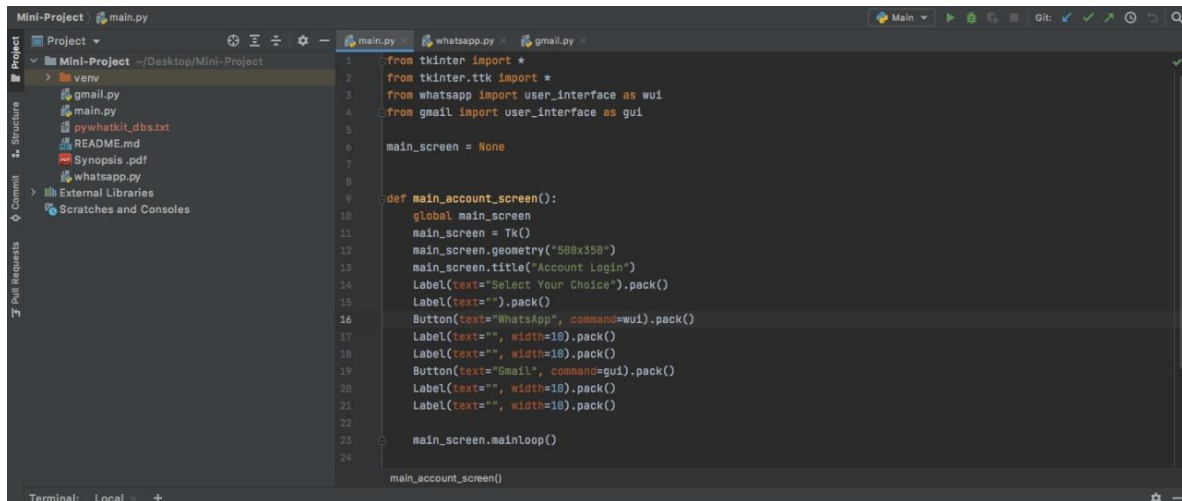
Message

Send



# CODE SCRRENSHOTS

## Main.py



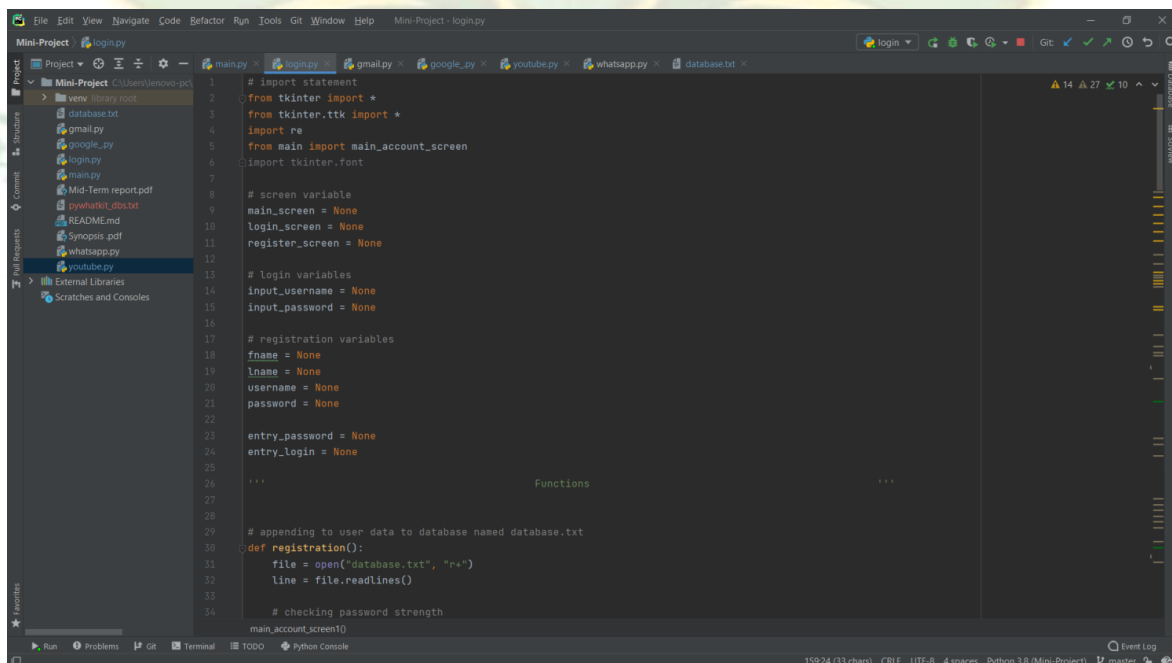
```

1 from tkinter import *
2 from tkinter.ttk import *
3 from whatsapp import user_interface as wui
4 from gmail import user_interface as gui
5
6 main_screen = None
7
8
9 def main_account_screen():
10     global main_screen
11     main_screen = Tk()
12     main_screen.geometry("500x350")
13     main_screen.title("Account Login")
14     Label(text="Select Your Choice").pack()
15     Label(text="").pack()
16     Button(text="WhatsApp", command=wui).pack()
17     Label(text="", width=10).pack()
18     Label(text="", width=10).pack()
19     Button(text="Gmail", command=gui).pack()
20     Label(text="", width=10).pack()
21     Label(text="", width=10).pack()
22
23     main_screen.mainloop()
24
25 main_account_screen()

```

## Login.py

1.



```

1 # import statement
2 from tkinter import *
3 from tkinter.ttk import *
4 import re
5 from main import main_account_screen
6 import tkinter.font
7
8 # screen variable
9 main_screen = None
10 login_screen = None
11 register_screen = None
12
13 # login variables
14 input_username = None
15 input_password = None
16
17 # registration variables
18 fname = None
19 lname = None
20 username = None
21 password = None
22
23 entry_password = None
24 entry_login = None
25
26 ...
27
28
29 # appending to user data to database named database.txt
30 def registration():
31     file = open("database.txt", "r+")
32     line = file.readlines()
33
34     # checking password strength
35     main_account_screen()

```



2.

```

35 fl = 0
36 while True:
37     if (len(password.get()) < 8):
38         fl = -1
39         break
40     elif not re.search("[a-z]", password.get()):
41         fl = -1
42         break
43     elif not re.search("[A-Z]", password.get()):
44         fl = -1
45         break
46     elif not re.search("[0-9]", password.get()):
47         fl = -1
48         break
49     elif not re.search("[_@]", password.get()):
50         fl = -1
51         break
52     elif re.search("\s", password.get()):
53         fl = -1
54         break
55     else:
56         fl = 0
57         password_valid_label = Label(register_screen, text="Valid password").pack()
58         break
59 if fl == -1:
60     password_invalid_label = Label(register_screen, text="Password Not Valid").pack()
61 else:
62     try:
63         index = line.index("Username:-" + username.get() + "\n")
64         already_exist_label = Label(register_screen, text="User Already Exists!!").pack()
65     except:
66         file.write("Name:-" + fname.get() + " " + lname.get() + "\nUsername:-" +
67                 username.get() + "\nPassword:-" + password.get() + "\n")
68         successfully_done_label = Label(register_screen, text="Successfully Registered").pack()

```

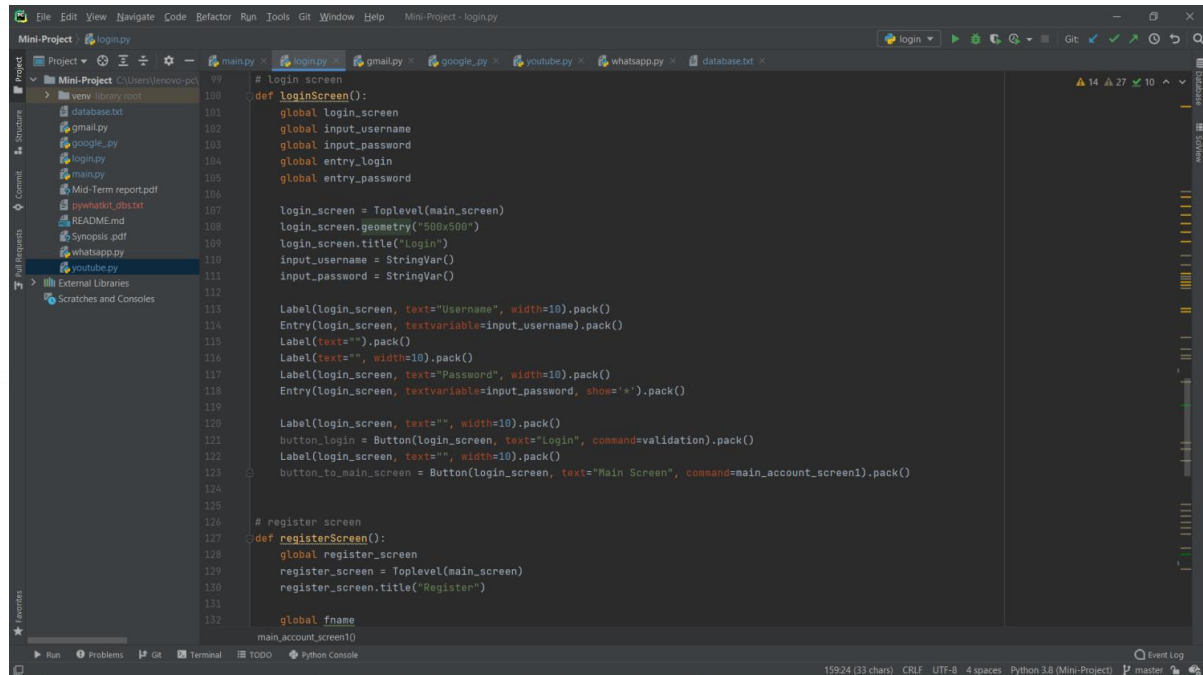
3.

```

73 def validation():
74     # formatting the username and password
75     formatted_username = "Username:-" + input_username.get() + "\n"
76     formatted_password = "Password:-" + input_password.get() + "\n"
77
78     file = open("database.txt", "r")
79     line = file.readlines()
80     try:
81         username_index = line.index(formatted_username)
82         for i in range(len(line)):
83             if formatted_username == line[username_index]:
84                 if formatted_password == line[username_index + 1]:
85                     congo = Label(login_screen, text="Congratulations").pack()
86                     main_account_screen()
87                     break
88                 else:
89                     password_incorrect = Label(login_screen, text="Password Incorrect").pack()
90                     break
91     except:
92         user_not_found = Label(login_screen, text="User not Found").pack()
93     file.close()
94
95
96
97
98
99
100
101 # login screen
102 def loginScreen():
103     global login_screen
104     global input_username
105     global input_password
106     global entry_login
107     global entry_password

```

4.



```

# Login screen
def loginScreen():
    global login_screen
    global input_username
    global input_password
    global entry_login
    global entry_password

    login_screen = Toplevel(main_screen)
    login_screen.geometry("500x500")
    login_screen.title("Login")
    input_username = StringVar()
    input_password = StringVar()

    Label(login_screen, text="Username", width=10).pack()
    Entry(login_screen, textvariable=input_username).pack()
    Label(text="").pack()
    Label(login_screen, text="Password", width=10).pack()
    Entry(login_screen, textvariable=input_password, show='*').pack()

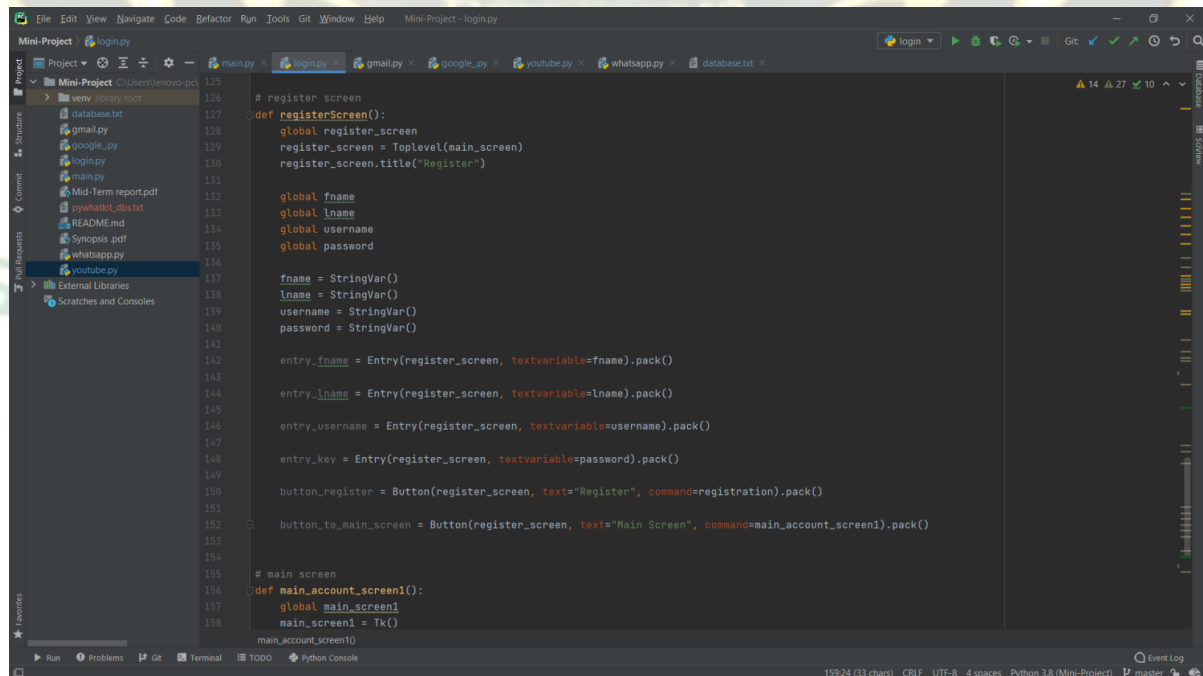
    Label(login_screen, text="", width=10).pack()
    button_login = Button(login_screen, text="Login", command=validation).pack()
    Label(login_screen, text="", width=10).pack()
    button_to_main_screen = Button(login_screen, text="Main Screen", command=main_account_screen1).pack()

# register screen
def registerScreen():
    global register_screen
    register_screen = Toplevel(main_screen)
    register_screen.title("Register")

    global fname
    main_account_screen1()

```

5.



```

# register screen
def registerScreen():
    global register_screen
    register_screen = Toplevel(main_screen)
    register_screen.title("Register")

    global fname
    global lname
    global username
    global password

    fname = StringVar()
    lname = StringVar()
    username = StringVar()
    password = StringVar()

    entry_fname = Entry(register_screen, textvariable=fname).pack()
    entry_lname = Entry(register_screen, textvariable=lname).pack()
    entry_username = Entry(register_screen, textvariable=username).pack()
    entry_key = Entry(register_screen, textvariable=password).pack()

    button_register = Button(register_screen, text="Register", command=registration).pack()
    button_to_main_screen = Button(register_screen, text="Main Screen", command=main_account_screen1).pack()

# main screen
def main_account_screen1():
    global main_screen1
    main_screen1 = Tk()

```

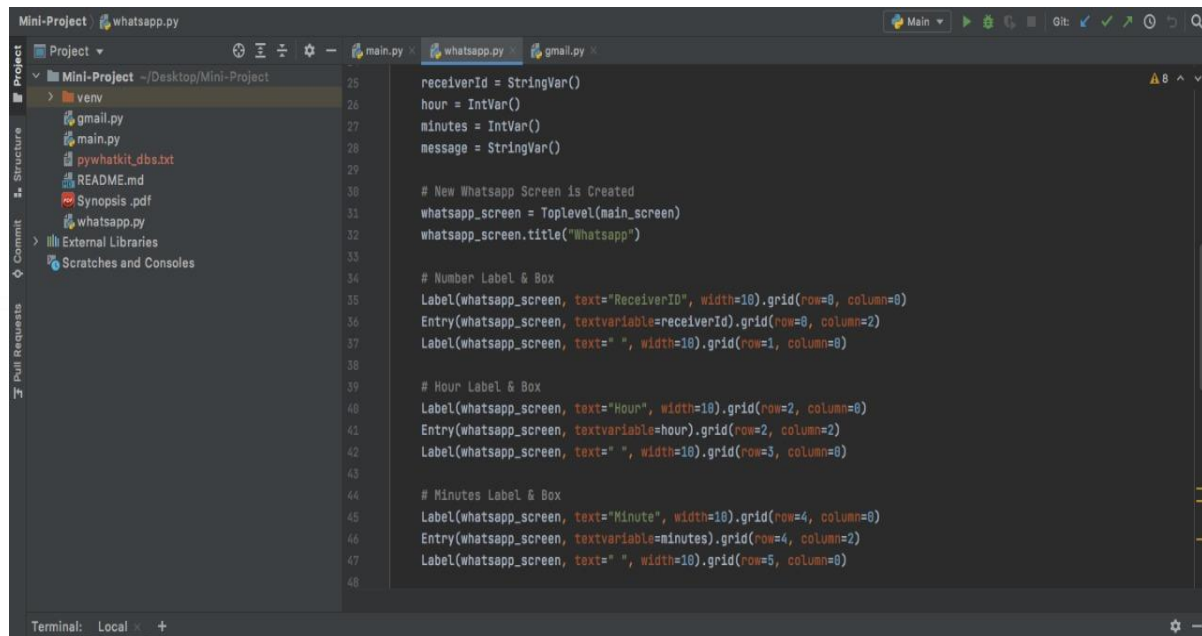
6.

```

151 button_register = Button(register_screen, text="Register", command=registration).pack()
152
153 button_to_main_screen = Button(register_screen, text="Main Screen", command=main_account_screen1).pack()
154
155 # main screen
156 def main_account_screen1():
157     global main_screen1
158     main_screen1 = Tk()
159     main_screen1.geometry("1000x600")
160     main_screen1.title("Account Login")
161
162     tr = Label(main_screen1, text="Welcome to Social Media Utility Tool")
163     tr.pack()
164     font_tuple = ("Comic Sans MS", 20, "bold")
165     tr.configure(font=font_tuple)
166     d = Label(main_screen1, text="Select Your Choice :")
167     d.pack()
168     d.configure(background="black", foreground="white")
169     Label(main_screen1, text="").pack()
170     Button(main_screen1, text="Log In", width="30", command=loginScreen).pack()
171     Label(main_screen1, text="").pack()
172     Button(main_screen1, text="Register", width="30", command=registerScreen).pack()
173     main_screen1.mainloop()
174
175 # main screen function calling
176 main_account_screen1()
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1011
1012
1013
1014
1015
1016
1017
1018
1019
1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
1030
1031
1032
1033
1034
1035
1036
1037
1038
1039
1040
1041
1042
1043
1044
1045
1046
1047
1048
1049
1050
1051
1052
1053
1054
1055
1056
1057
1058
1059
1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
1070
1071
1072
1073
1074
1075
1076
1077
1078
1079
1080
1081
1082
1083
1084
1085
1086
1087
1088
1089
1090
1091
1092
1093
1094
1095
1096
1097
1098
1099
1100
1101
1102
1103
1104
1105
1106
1107
1108
1109
1110
1111
1112
1113
1114
1115
1116
1117
1118
1119
1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
1131
1132
1133
1134
1135
1136
1137
1138
1139
1140
1141
1142
1143
1144
1145
1146
1147
1148
1149
1150
1151
1152
1153
1154
1155
1156
1157
1158
1159
1160
1161
1162
1163
1164
1165
1166
1167
1168
1169
1170
1171
1172
1173
1174
1175
1176
1177
1178
1179
1180
1181
1182
1183
1184
1185
1186
1187
1188
1189
1190
1191
1192
1193
1194
1195
1196
1197
1198
1199
1200
1201
1202
1203
1204
1205
1206
1207
1208
1209
1210
1211
1212
1213
1214
1215
1216
1217
1218
1219
1220
1221
1222
1223
1224
1225
1226
1227
1228
1229
1230
1231
1232
1233
1234
1235
1236
1237
1238
1239
1240
1241
1242
1243
1244
1245
1246
1247
1248
1249
1250
1251
1252
1253
1254
1255
1256
1257
1258
1259
1260
1261
1262
1263
1264
1265
1266
1267
1268
1269
1270
1271
1272
1273
1274
1275
1276
1277
1278
1279
1280
1281
1282
1283
1284
1285
1286
1287
1288
1289
1290
1291
1292
1293
1294
1295
1296
1297
1298
1299
1300
1301
1302
1303
1304
1305
1306
1307
1308
1309
1310
1311
1312
1313
1314
1315
1316
1317
1318
1319
1320
1321
1322
1323
1324
1325
1326
1327
1328
1329
1330
1331
1332
1333
1334
1335
1336
1337
1338
1339
1340
1341
1342
1343
1344
1345
1346
1347
1348
1349
1350
1351
1352
1353
1354
1355
1356
1357
1358
1359
1360
1361
1362
1363
1364
1365
1366
1367
1368
1369
1370
1371
1372
1373
1374
1375
1376
1377
1378
1379
1380
1381
1382
1383
1384
1385
1386
1387
1388
1389
1390
1391
1392
1393
1394
1395
1396
1397
1398
1399
1400
1401
1402
1403
1404
1405
1406
1407
1408
1409
1410
1411
1412
1413
1414
1415
1416
1417
1418
1419
1420
1421
1422
1423
1424
1425
1426
1427
1428
1429
1430
1431
1432
1433
1434
1435
1436
1437
1438
1439
1440
1441
1442
1443
1444
1445
1446
1447
1448
1449
1450
1451
1452
1453
1454
1455
1456
1457
1458
1459
1460
1461
1462
1463
1464
1465
1466
1467
1468
1469
1470
1471
1472
1473
1474
1475
1476
1477
1478
1479
1480
1481
1482
1483
1484
1485
1486
1487
1488
1489
1490
1491
1492
1493
1494
1495
1496
1497
1498
1499
1500
1501
1502
1503
1504
1505
1506
1507
1508
1509
1510
1511
1512
1513
1514
1515
1516
1517
1518
1519
1520
1521
1522
1523
1524
1525
1526
1527
1528
1529
1530
1531
1532
1533
1534
1535
1536
1537
1538
1539
1540
1541
1542
1543
1544
1545
1546
1547
1548
1549
1550
1551
1552
1553
1554
1555
1556
1557
1558
1559
1560
1561
1562
1563
1564
1565
1566
1567
1568
1569
1570
1571
1572
1573
1574
1575
1576
1577
1578
1579
1580
1581
1582
1583
1584
1585
1586
1587
1588
1589
1590
1591
1592
1593
1594
1595
1596
1597
1598
1599
1600
1601
1602
1603
1604
1605
1606
1607
1608
1609
1610
1611
1612
1613
1614
1615
1616
1617
1618
1619
1620
1621
1622
1623
1624
1625
1626
1627
1628
1629
1630
1631
1632
1633
1634
1635
1636
1637
1638
1639
1640
1641
1642
1643
1644
1645
1646
1647
1648
1649
1650
1651
1652
1653
1654
1655
1656
1657
1658
1659
1660
1661
1662
1663
1664
1665
1666
1667
1668
1669
1670
1671
1672
1673
1674
1675
1676
1677
1678
1679
1680
1681
1682
1683
1684
1685
1686
1687
1688
1689
1690
1691
1692
1693
1694
1695
1696
1697
1698
1699
1700
1701
1702
1703
1704
1705
1706
1707
1708
1709
1710
1711
1712
1713
1714
1715
1716
1717
1718
1719
1720
1721
1722
1723
1724
1725
1726
1727
1728
1729
1730
1731
1732
1733
1734
1735
1736
1737
1738
1739
1740
1741
1742
1743
1744
1745
1746
1747
1748
1749
1750
1751
1752
1753
1754
1755
1756
1757
1758
1759
1760
1761
1762
1763
1764
1765
1766
1767
1768
1769
1770
1771
1772
1773
1774
1775
1776
1777
1778
1779
1780
1781
1782
1783
1784
1785
1786
1787
1788
1789
1790
1791
1792
1793
1794
1795
1796
1797
1798
1799
1800
1801
1802
1803
1804
1805
1806
1807
1808
1809
1810
1811
1812
1813
1814
1815
1816
1817
1818
1819
1820
1821
1822
1823
1824
1825
1826
1827
1828
1829
1830
1831
1832
1833
1834
1835
1836
1837
1838
1839
1840
1841
1842
1843
1844
1845
1846
1847
1848
1849
1850
1851
1852
1853
1854
1855
1856
1857
1858
1859
1860
1861
1862
1863
1864
1865
1866
1867
1868
1869
1870
1871
1872
1873
1874
1875
1876
1877
1878
1879
1880
1881
1882
1883
1884
1885
1886
1887
1888
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900
1901
1902
1903
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2037
2038
2039
2040
2041
2042
2043
2044
2045
2046
2047
2048
2049
2050
2051
2052
2053
2054
2055
2056
2057
2058
2059
2060
2061
2062
2063
2064
2065
2066
2067
2068
2069
2070
2071
2072
2073
2074
2075
2076
2077
2078
2079
2080
2081
2082
2083
2084
2085
2086
2087
2088
2089
2090
2091
2092
2093
2094
2095
2096
2097
2098
2099
2100
2101
2102
2103
2104
2105
2106
2107
2108
2109
2110
2111
2112
2113
2114
2115
2116
2117
2118
2119
2120
2121
2122
2123
2124
2125
2126
2127
2128
2129
2130
2131
2132
2133
2134
2135
2136
2137
2138
2139
2140
2141
2142
2143
2144
2145
2146
2147
2148
2149
2150
2151
2152
2153
2154
2155
2156
2157
2158
2159
2160
2161
2162
2163
2164
2165
2166
2167
2168
2169
2170
2171
2172
2173
2174
2175
2176
2177
2178
2179
2180
2181
2182
2183
2184
2185
2186
2187
2188
2189
2190
2191
2192
2193
2194
2195
2196
2197
2198
2199
2200
2201
2202
2203
2204
2205
2206
2207
2208
2209
2210
2211
2212
2213
2214
2215
2216
2217
2218
2219
2220
2221
2222
2223
2224
2225
2226
2227
2228
2229
2230
2231
2232
2233
2234
2235
2236
2237
2238
2239
2240
2241
2242
2243
2244
2245
2246
2247
2248
2249
2250
2251
2252
2253
2254
2255
2256
2257
2258
2259
2260
2261
2262
2263
2264
2265
2266
2267
2268
2269
2270
2271
2272
2273
2274
2275
2276
2277
2278
2279
2280
2281
2282
2283
2284
2285
2286
2287
2288
2289
2290
2291
2292
2293
2294
2295
2296
2297
2298
2299
2300
2301
2302
2303
2304
2305
2306
2307
2308
2309
2310
2311
2312
2313
2314
2315
2316
2317
2318
2319
2320
2321
2322
2323
2324
2325
2326
2327
2328
2329
2330
2331
2332
2333
2334
2335
2336
2337
2338
2339
2340
2341
2342
2343
2344
2345
2346
2347
2348
2349
2350
2351
2352
2353
2354
2355
2356
2357
2358
2359
2360
2361
2362
2363
2364
2365
2366
2367
2368
2369
2370
2371
2372
2373
2374
2375
2376
2377
2378
2379
2380
2381
2382
2383
2384
2385
2386
2387
2388
2389
2390
2391
2392
2393
2394
2395
2396
2397
2398
2399
2400
2401
2402
2403
2404
2405
2406
2407
2408
2409
2410
2411
2412
2413
2414
2415
2416
2417
2418
2419
2420
2421
2422
2423
2424
2425
2426
2427
2428
2429
2430
2431
2432
2433
2434
2435
2436
2437
2438
2439
2440
2441
2442
2443
2444
2445
2446
2447
2448
2449
2450
2451
2452
2453
2454
2455
2456
2457
2458
2459
2460
2461
2462
2463
2464
2465
2466
2467
2468
2469
2470
2471
2472
2473
2474
2475
2476
2477
2478
2479
2480
2481
2482
2483
2484
2485
2486
2487
2488
2489
2490
2491
2492
2493
2494
2495
2496
2497
2498
2499
2500
2501
2502
2503
2504
2505
2506
2507
2508
2509
2510
2511
2512
2513
2514
2515
2516
2517
2518
2519
2520
2521
2522
2523
2524
2525
2526
2527
2528
2529
2530
2531
2532
2533
2534
2535
2536
2537
2538
2539
2540
2541
2542
2543
2544
2545
2546
2547
2548
2549
2550
2551
2552
2553
2554
2555
2556
2557
2558
2559
2560
2561
2562
2563
2564
2565
2566
2567
2568
2569
2570
2571
2572
2573
2574
2575
2576
2577
2578
2579
2580
2581
2582
2583
2584
2585
2586
2587
2588
2589
2590
2591
2592
2593
2594
2595
2596
2597
2598
2599
2600
2601
2602
2603
2604
2605
2606
2607
2608
2609
2610
2611
2612
2613
2614
2615
2616
2617
2618
2619
2620
2621
2622
2623
2624
2625
2626
2627
2628
2629
2630
2631
2632
2633
2634
2635
2636
2637
2638
2639
2640
2641
2642
2643
2644
2645
2646
2647
2648
2649
2650
2651
2652
2653
2654
2655
2656
2657
2658
2659
2660
2661
2662
2663
2664
2665
2666
2667
2668
2669
2670
2671
2672
2673
2674
2675
2676
2677
2678
2679
2680
2681
2682
2683
2684
2685
2686
2687
2688
2689
2690
2691
2692
2693
2694
2695
2696
2697
2698
2699
2700
2701
2702
2703
2704
2705
2706
2707
2708
2709

```

2.

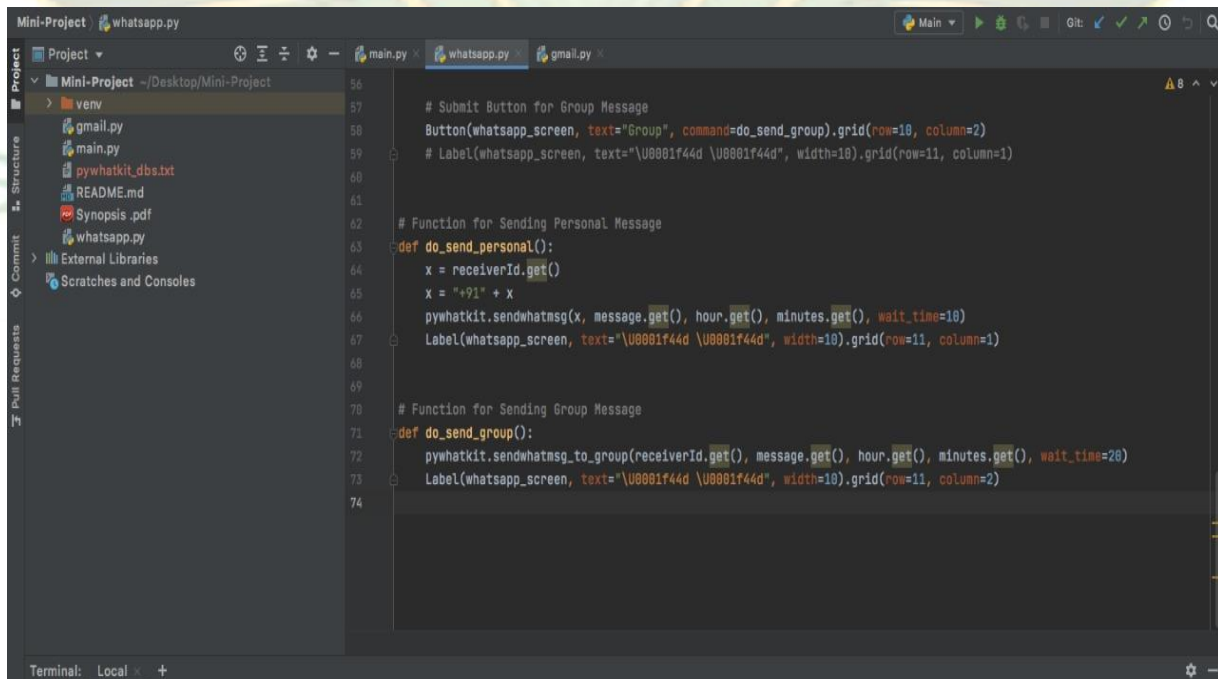


```

25 receiverId = StringVar()
26 hour = IntVar()
27 minutes = IntVar()
28 message = StringVar()
29
30 # New Whatsapp Screen is Created
31 whatsapp_screen = Toplevel(main_screen)
32 whatsapp_screen.title("Whatsapp")
33
34 # Number Label & Box
35 Label(whatsapp_screen, text="ReceiverID", width=10).grid(row=0, column=0)
36 Entry(whatsapp_screen, textvariable=receiverId).grid(row=0, column=2)
37 Label(whatsapp_screen, text=" ", width=10).grid(row=1, column=0)
38
39 # Hour Label & Box
40 Label(whatsapp_screen, text="Hour", width=10).grid(row=2, column=0)
41 Entry(whatsapp_screen, textvariable=hour).grid(row=2, column=2)
42 Label(whatsapp_screen, text=" ", width=10).grid(row=3, column=0)
43
44 # Minutes Label & Box
45 Label(whatsapp_screen, text="Minute", width=10).grid(row=4, column=0)
46 Entry(whatsapp_screen, textvariable=minutes).grid(row=4, column=2)
47 Label(whatsapp_screen, text=" ", width=10).grid(row=5, column=0)
48

```

3.

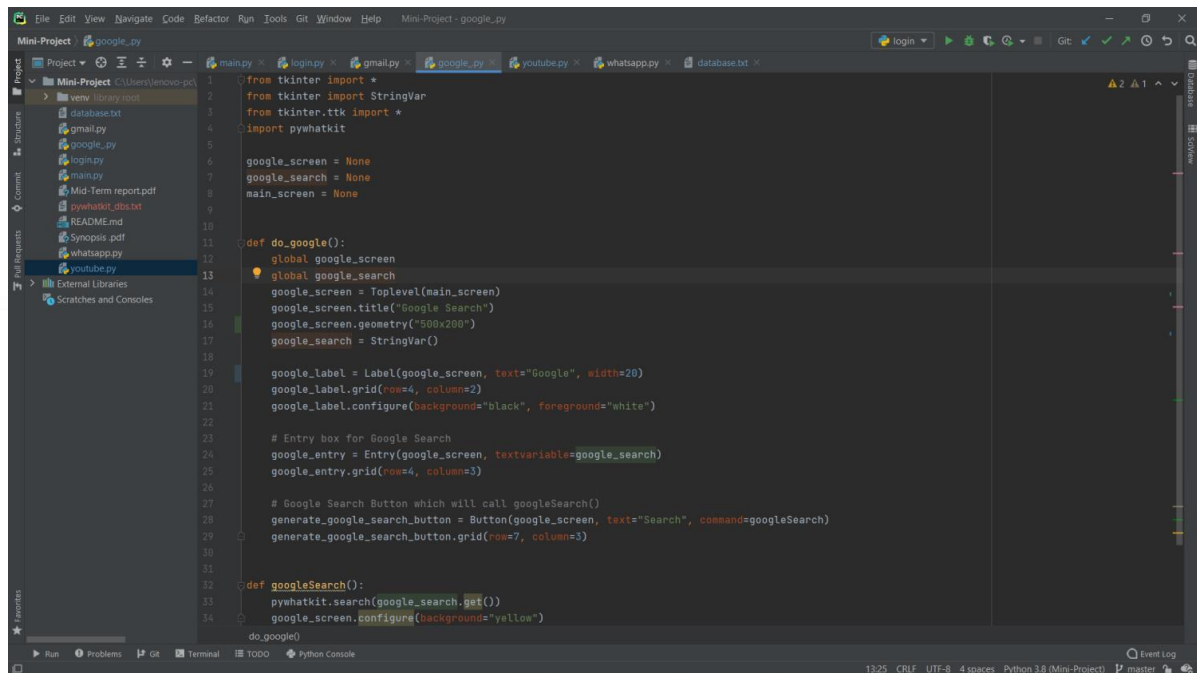


```

56 # Submit Button for Group Message
57 Button(whatsapp_screen, text="Group", command=do_send_group).grid(row=10, column=2)
58 # Label(whatsapp_screen, text="\U0001f44d \U0001f44d", width=10).grid(row=11, column=1)
59
60 # Function for Sending Personal Message
61 def do_send_personal():
62     x = receiverId.get()
63     x = "+91" + x
64     pywhatkit.sendwhatmsg(x, message.get(), hour.get(), minutes.get(), wait_time=10)
65     Label(whatsapp_screen, text="\U0001f44d \U0001f44d", width=10).grid(row=11, column=1)
66
67 # Function for Sending Group Message
68 def do_send_group():
69     pywhatkit.sendwhatmsg_to_group(receiverId.get(), message.get(), hour.get(), minutes.get(), wait_time=20)
70     Label(whatsapp_screen, text="\U0001f44d \U0001f44d", width=10).grid(row=11, column=2)
71
72
73
74

```

## Google.py

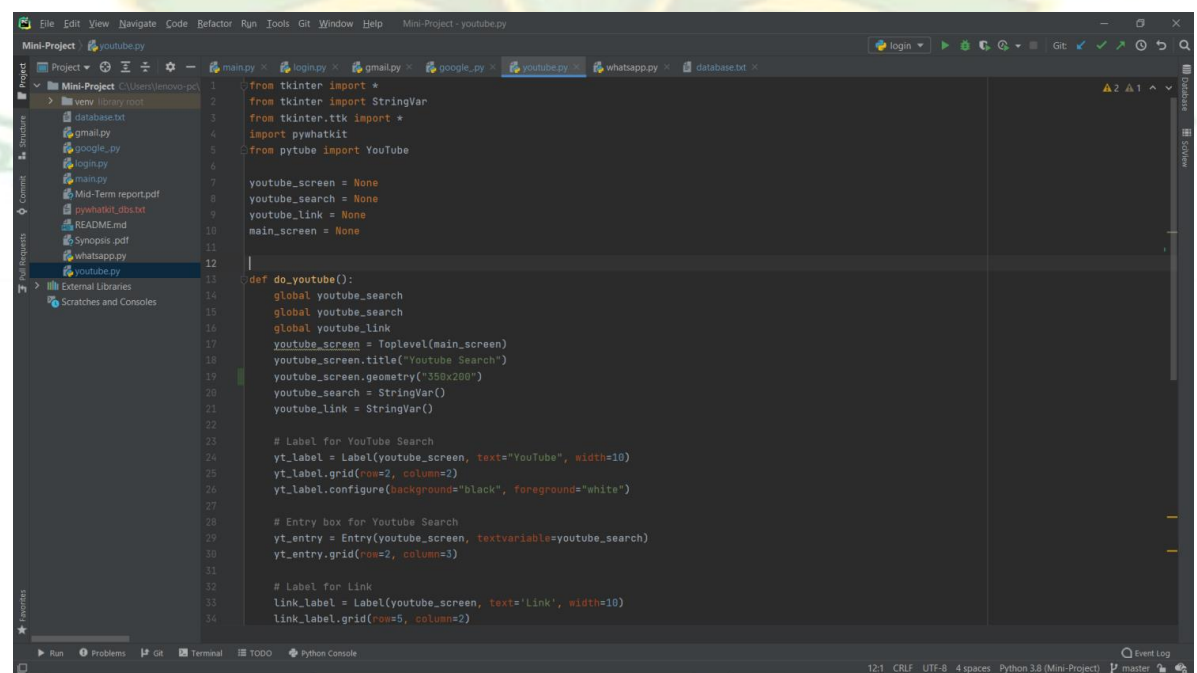


```

1 from tkinter import *
2 from tkinter import StringVar
3 from tkinter.ttk import *
4 import pywhatkit
5
6 google_screen = None
7 google_search = None
8 main_screen = None
9
10
11 def do_google():
12     global google_screen
13     global google_search
14     google_screen = Toplevel(main_screen)
15     google_screen.title("Google Search")
16     google_screen.geometry("500x200")
17     google_search = StringVar()
18
19     google_label = Label(google_screen, text="Google", width=20)
20     google_label.grid(row=4, column=2)
21     google_label.configure(background="black", foreground="white")
22
23     # Entry box for Google Search
24     google_entry = Entry(google_screen, textvariable=google_search)
25     google_entry.grid(row=4, column=3)
26
27     # Google Search Button which will call googleSearch()
28     generate_google_search_button = Button(google_screen, text="Search", command=googleSearch)
29     generate_google_search_button.grid(row=7, column=3)
30
31
32 def googleSearch():
33     pywhatkit.search(google_search.get())
34     google_screen.configure(background="yellow")
35     do_google()

```

## Youtube.py



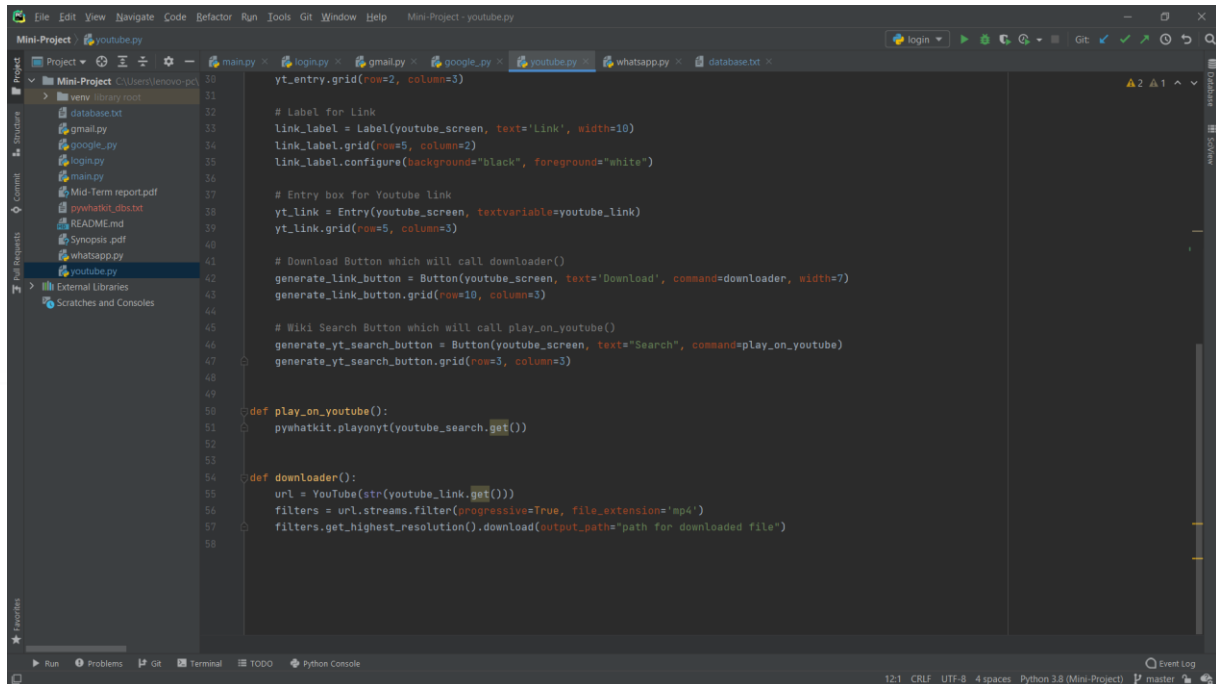
```

1 from tkinter import *
2 from tkinter import StringVar
3 from tkinter.ttk import *
4 import pywhatkit
5 from pytube import YouTube
6
7 youtube_screen = None
8 youtube_search = None
9 youtube_link = None
10 main_screen = None
11
12
13 def do_youtube():
14     global youtube_search
15     global youtube_link
16     youtube_screen = Toplevel(main_screen)
17     youtube_screen.title("Youtube Search")
18     youtube_screen.geometry("350x200")
19     youtube_search = StringVar()
20     youtube_link = StringVar()
21
22     # Label for YouTube Search
23     yt_label = Label(youtube_screen, text="YouTube", width=10)
24     yt_label.grid(row=2, column=2)
25     yt_label.configure(background="black", foreground="white")
26
27     # Entry box for YouTube Search
28     yt_entry = Entry(youtube_screen, textvariable=youtube_search)
29     yt_entry.grid(row=2, column=3)
30
31     # Label for Link
32     link_label = Label(youtube_screen, text='Link', width=10)
33     link_label.grid(row=5, column=2)

```



2.



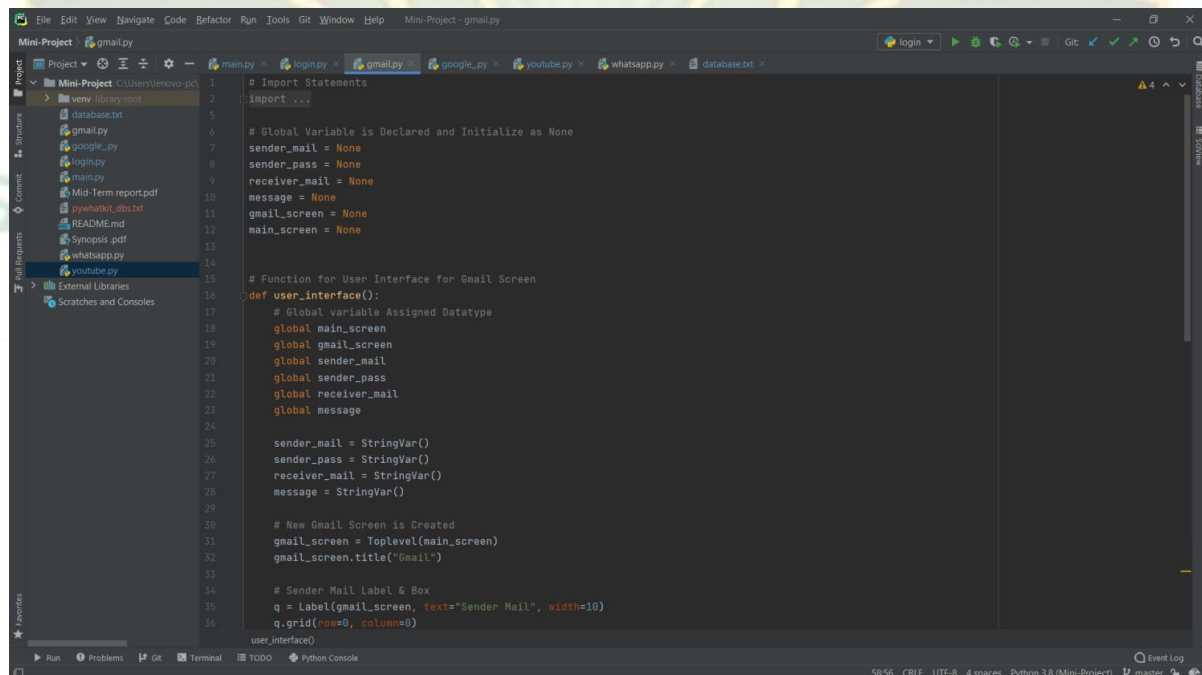
```

Mini-Project - youtube.py
30 yt_entry.grid(row=2, column=3)
31
32 # Label for Link
33 link_label = Label(youtube_screen, text='Link', width=10)
34 link_label.grid(row=5, column=2)
35 link_label.configure(background="black", foreground="white")
36
37 # Entry box for Youtube link
38 yt_link = Entry(youtube_screen, textvariable=youtube_link)
39 yt_link.grid(row=5, column=3)
40
41 # Download Button which will call downloader()
42 generate_link_button = Button(youtube_screen, text='Download', command=downloader, width=7)
43 generate_link_button.grid(row=10, column=3)
44
45 # Wiki Search Button which will call play_on_youtube()
46 generate_yt_search_button = Button(youtube_screen, text='Search', command=play_on_youtube)
47 generate_yt_search_button.grid(row=3, column=3)
48
49
50 def play_on_youtube():
51     pywhatkit.playonyt(youtube_search.get())
52
53
54 def downloader():
55     url = YouTube(str(youtube_link.get()))
56     filters = url.streams.filter(adaptive=True, file_extension='mp4')
57     filters.get_highest_resolution().download(output_path="path for downloaded file")
58

```

Gmail.py

1.



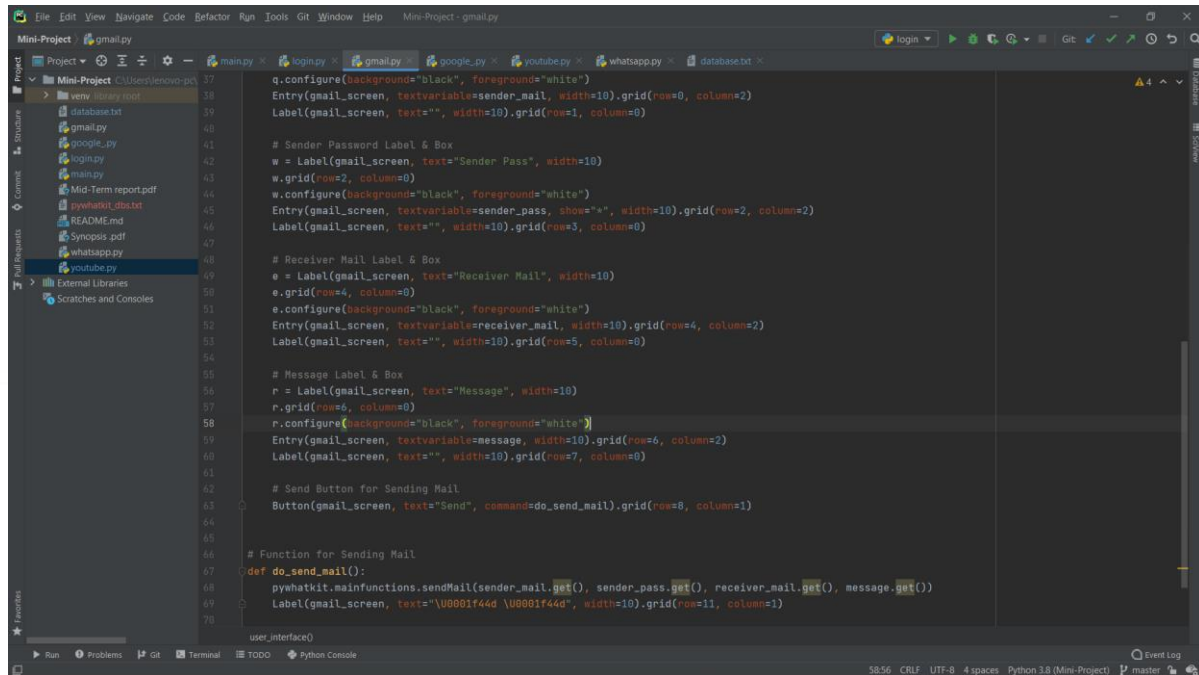
```

Mini-Project - gmail.py
1 # Import Statements
2 import ...
3
4 # Global Variable is Declared and Initialize as None
5 sender_mail = None
6 sender_pass = None
7 receiver_mail = None
8 message = None
9 gmail_screen = None
10 main_screen = None
11
12 # Function for User Interface for Gmail Screen
13
14 def user_interface():
15     # Global variable Assigned Datatype
16     global main_screen
17     global gmail_screen
18     global sender_mail
19     global sender_pass
20     global receiver_mail
21     global message
22
23     sender_mail = StringVar()
24     sender_pass = StringVar()
25     receiver_mail = StringVar()
26     message = StringVar()
27
28     # New Gmail Screen is Created
29     gmail_screen = Toplevel(main_screen)
30     gmail_screen.title("Gmail")
31
32     # Sender Mail Label & Box
33     q = Label(gmail_screen, text="Sender Mail", width=10)
34     q.grid(row=0, column=0)
35
36 user_interface()

```



2.



```
q.configure(background="black", foreground="white")
Entry(gmail_screen, textvariable=sender_mail, width=10).grid(row=0, column=2)
Label(gmail_screen, text="", width=10).grid(row=1, column=0)

# Sender Password Label & Box
w = Label(gmail_screen, text="Sender Pass", width=10)
w.grid(row=2, column=0)
w.configure(background="black", foreground="white")
Entry(gmail_screen, textvariable=sender_pass, show="*", width=10).grid(row=2, column=2)
Label(gmail_screen, text="", width=10).grid(row=3, column=0)

# Receiver Mail Label & Box
e = Label(gmail_screen, text="Receiver Mail", width=10)
e.grid(row=4, column=0)
e.configure(background="black", foreground="white")
Entry(gmail_screen, textvariable=receiver_mail, width=10).grid(row=4, column=2)
Label(gmail_screen, text="", width=10).grid(row=5, column=0)

# Message Label & Box
r = Label(gmail_screen, text="Message", width=10)
r.grid(row=6, column=0)
r.configure(background="black", foreground="white")
Entry(gmail_screen, textvariable=message, width=10).grid(row=6, column=2)
Label(gmail_screen, text="", width=10).grid(row=7, column=0)

# Send Button for Sending Mail
Button(gmail_screen, text="Send", command=do_send_mail).grid(row=8, column=1)

# Function for Sending Mail
def do_send_mail():
    pywhatkit.mainfunctions.sendMail(sender_mail.get(), sender_pass.get(), receiver_mail.get(), message.get())
    Label(gmail_screen, text="\U0001f44d \U0001f44d", width=10).grid(row=11, column=1)

root.mainloop()
```



## **FUTURE SCOPE**

---

We are going to add other social media applications like Instagram, twitter etc., to make our application more versatile and useful. We will try to add a feature in it so that we can send Automated Message to a Group in WhatsApp using Group ID. We are thinking to add a smart assistant button in our tools so that all the work can be done by a voice-controlled system. This assistant can add up reminder of your work and can make a task list on its own as well as set up an alarm for your work. We are thinking to add a button in YouTube Screen to select the resolution of the video that is going to be downloaded. In the near future we are going to add more modules and functionalities to make it a complete package.

## **TESTING TECHNOLOGY TO BE USED**

---

- At First Stage we are going to test out Application on our personal system.
- At Second Stage we are going to test the Application on our colleague's system as well.
- At Third and Final Stage we are going to test the Application on a group of users to check the feasibility and stability of our application.

## **THE CONTRIBUTIONS OUR PROJECT IS GOING TO MAKE**

---

We are going to create an application which is a social media utility tool, which is a single application containing

Different type of social media tools like WhatsApp, Instagram so you need not to switch to different applications, you can access all these through a single tool, which is named as Social Media Utility Tool.

## SCOPE FOR EXTENSION INTO MAJOR PROJECT

---

In this project we are going to create a login page and after logging in person can send a message or email or can do a Google search or can watch YouTube videos as well as download the YouTube video. After completion of this project, we are going to extend our project by adding more social media applications like twitter, Instagram, snapchat, Facebook etc.

## CONCLUSION

---

At the very end of this we are having a tool that can: -

1. Automate whatsapp message for a certain time on a certain mobile number.
2. Send e-mail using Gmail's SMTP communication protocol.
3. Download a YouTube video using only its URL (Uniform Resource Locator)
4. Search anything on Google on a single tap.

## REFERENCES

---

- <https://www.w3schools.com/>
- <https://stackoverflow.com/>
- <https://www.tutorialspoint.com/>
- <https://www.youtube.com/>

