

attendance_calculator

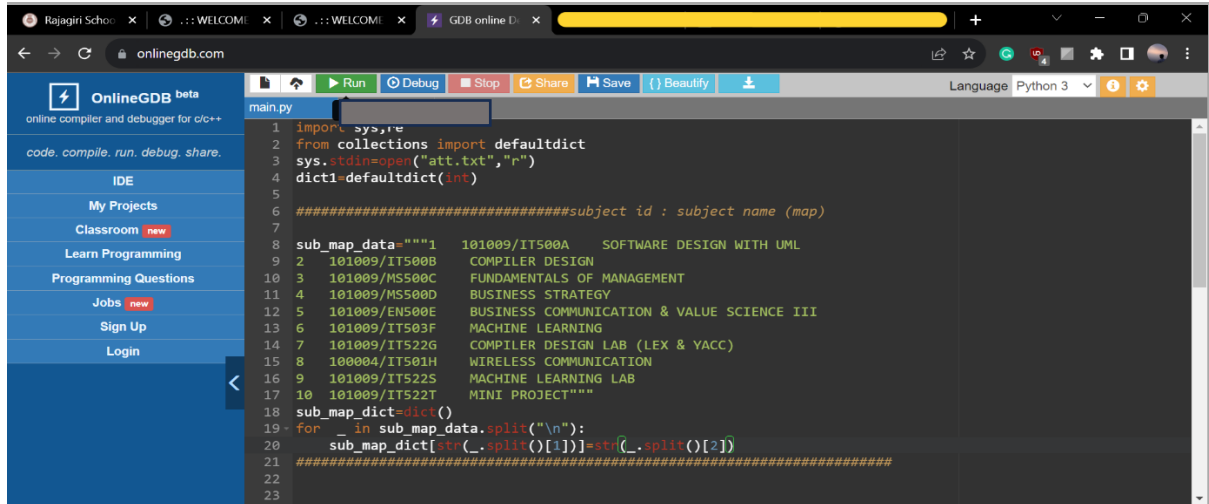
Simple program to calculate how much attendance per subject is lost

3 Simple Steps to Follow:

Step 1: Open any text editor or online Python interpreter

I use GDB online(https://www.onlinegdb.com/online_python_compiler)

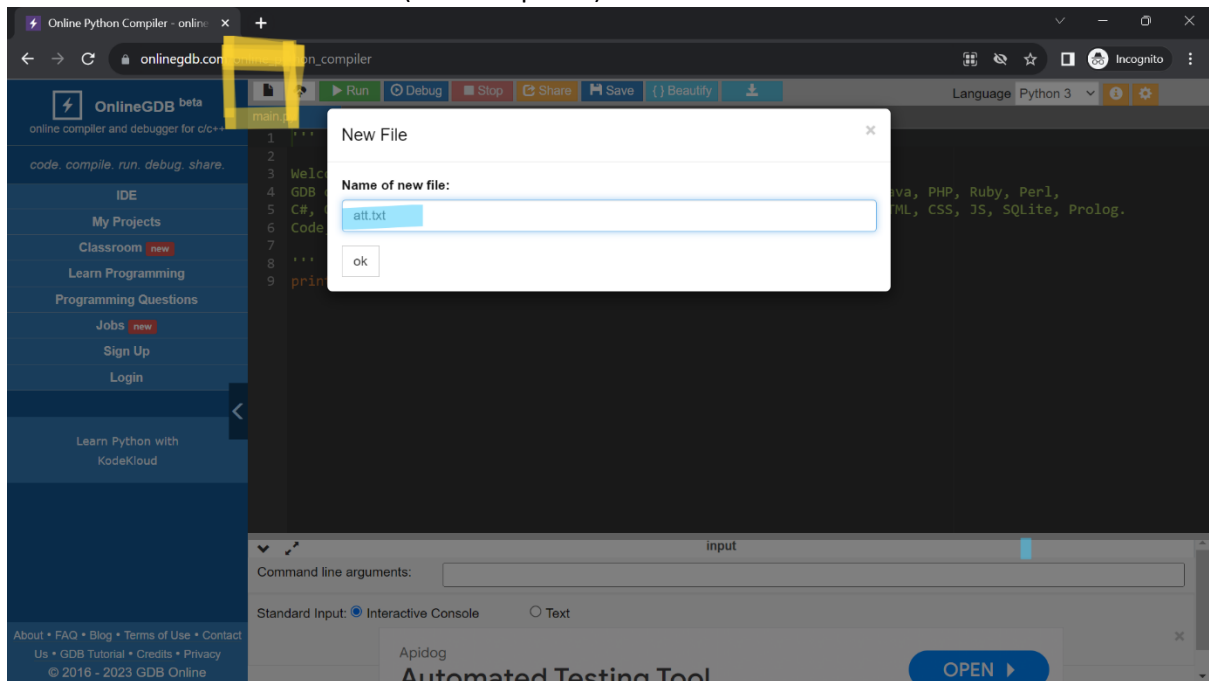
Copy paste my main.py code into your online gdb main.py



The screenshot shows the OnlineGDB web interface. On the left is a sidebar with navigation links: OnlineGDB beta, code.compile.run.debug.share., IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Jobs (new), Sign Up, and Login. The main area displays a Python script in a file named 'main.py'. The script imports sys and defaultdict, opens 'att.txt' for reading, and defines a dictionary 'dict1' with subject IDs and names. It then defines a list 'sub_map_data' containing tuples of subject IDs and names. A loop iterates over 'sub_map_data', splitting each tuple and updating 'sub_map_dict' with the subject name. The script ends with a print statement for 'sub_map_dict'.

```
1 import sys, re
2 from collections import defaultdict
3 sys.stdin=open("att.txt","r")
4 dict1=defaultdict(int)
5
6 #####subject id : subject name (map)
7
8 sub_map_data="""1 101009/IT500A SOFTWARE DESIGN WITH UML
9 2 101009/IT500B COMPILER DESIGN
10 3 101009/MS500C FUNDAMENTALS OF MANAGEMENT
11 4 101009/MS500D BUSINESS STRATEGY
12 5 101009/EN500E BUSINESS COMMUNICATION & VALUE SCIENCE III
13 6 101009/IT503F MACHINE LEARNING
14 7 101009/IT522G COMPILER DESIGN LAB (LEX & YACC)
15 8 100004/IT501H WIRELESS COMMUNICATION
16 9 101009/IT522S MACHINE LEARNING LAB
17 10 101009/IT522T MINI PROJECT"""
18 sub_map_dict=dict()
19 for _ in sub_map_data.split("\n"):
20     sub_map_dict[str(_.split()[1]])=str(_.split()[2])
21 #####
22
23
```

create a new file named "att.txt" (without quotes)



STEP 2: COPY PASTE YOUR LOST ATTENDANCE FROM RSMS TO att.txt LIKE SHOWN IN THE IMAGE

Class Code:

Date/Hours	1	2	3	4	5	6	7
13-Sep-2023		101009/EN500E	101009/IT522T				
18-Sep-2023	101009/IT522T	101009/IT522T					
20-Sep-2023	101009/IT500B						
21-Sep-2023				101009/EN500E	101009/IT522G	101009/IT522G	
29-Sep-2023							101009/IT503F
12-Oct-2023	101009/IT522G	101009/IT522G	101009/IT500A				
16-Oct-2023	101009/MS500D						
25-Oct-2023	101009/IT500B						
31-Oct-2023					101009/IT503F	101009/IT503F	
2-Nov-2023	101009/IT522G	101009/IT522G					
8-Nov-2023	101009/IT500B	101009/EN500E					
20-Nov-2023	101009/MS500D	101009/MS500D	101009/EN500E	101009/IT503F	101009/MS500C	101009/IT500B	
21-Nov-2023	101009/IT500B						
28-Nov-2023	101009/IT500B						

Now, the att.txt should look like this

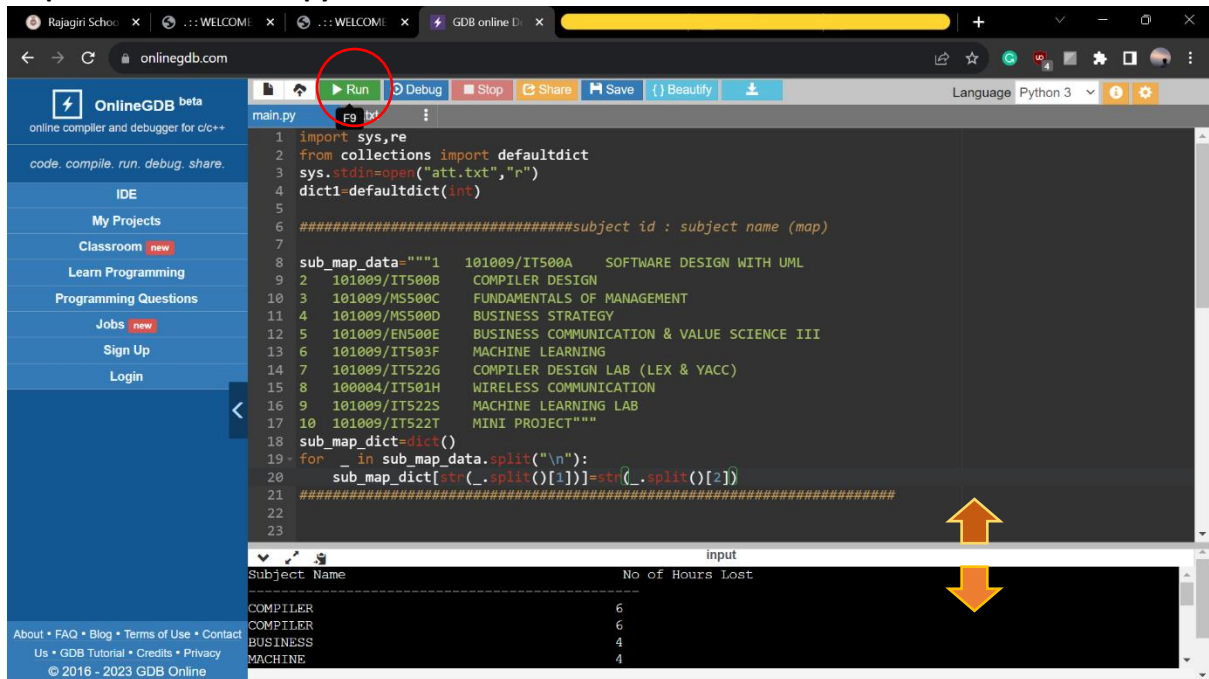
```

main.py  att.txt
1 13-Sep-2023 101009/EN500E 101009/IT522T
2 18-Sep-2023 101009/IT522T 101009/IT522T
3 20-Sep-2023 101009/IT500B
4 21-Sep-2023 101009/EN500E 101009/IT522G 101009/IT522G
5 29-Sep-2023 101009/IT503F
6 12-Oct-2023 101009/IT522G 101009/IT522G 101009/IT500A
7 16-Oct-2023 101009/MS500D
8 25-Oct-2023 101009/IT500B
9 31-Oct-2023 101009/IT503F 101009/IT503F
10 2-Nov-2023 101009/IT522G 101009/IT522G
11 8-Nov-2023 101009/IT500B 101009/EN500E
12 20-Nov-2023 101009/MS500D 101009/EN500E 101009/IT503F 101009/MS500C 101009/IT500B
13 21-Nov-2023 101009/IT500B
14 28-Nov-2023 101009/IT500B

input
Total Hours Lost 28

...Program finished with exit code 0
Press ENTER to exit console.
  
```

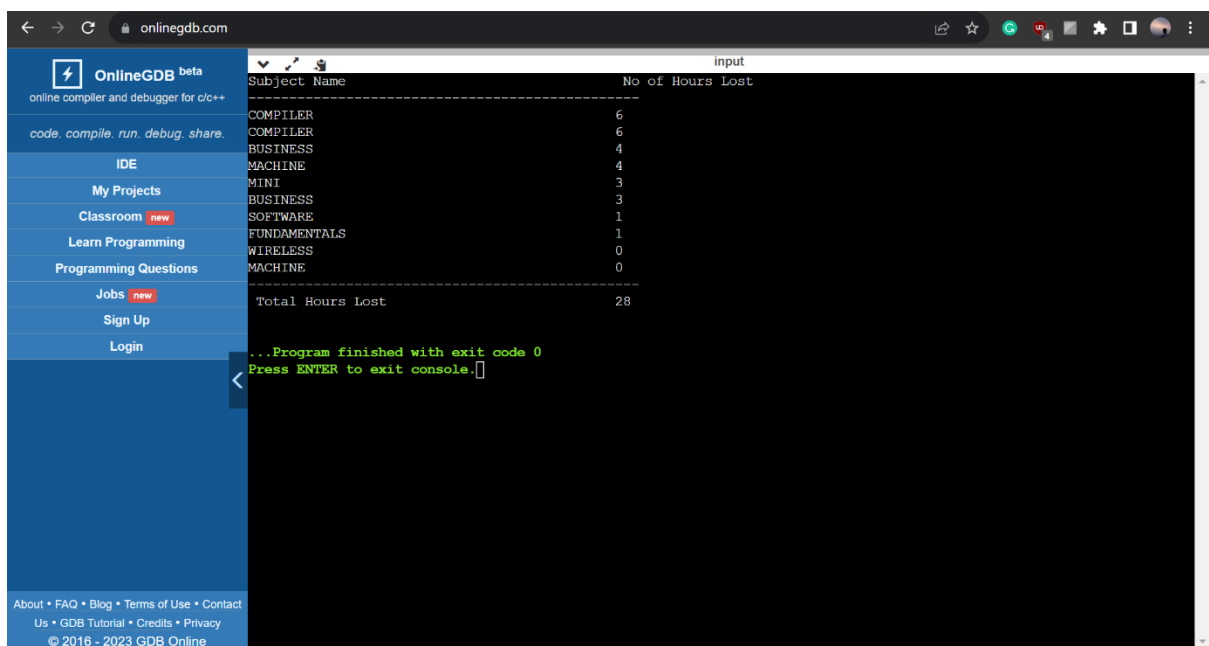
Step 3: Go back to main.py and run the code



The screenshot shows the OnlineGDB interface with the 'Run' button circled in red. The code in main.py reads data from 'att.txt' and processes it. Below the code editor, a table displays the results of the program's execution.

Subject Name	No of Hours Lost
COMPILER	6
COMPILER	6
BUSINESS	4
MACHINE	4

Final Result:



The screenshot shows the final output of the program. The table displays the total hours lost for each subject, and the program has finished with exit code 0.

Subject Name	No of Hours Lost
COMPILER	6
COMPILER	6
BUSINESS	4
MACHINE	4
MINI	3
BUSINESS	3
SOFTWARE	1
FUNDAMENTALS	1
WIRELESS	0
MACHINE	0
Total Hours Lost	28

...Program finished with exit code 0
Press ENTER to exit console.

<Ignore for S5 CSBS subjects>

To provide a new subject code -> subject name map, go to sessional marks page and copy paste the data in the sub_map_data variable in main.py.

make sure to leave the 3 quotes untouched and data must come between them without any spaces at top and bottom

The image shows a web application interface for sessional marks. At the top, there is a 'Class Code' dropdown set to '202355CU' and a 'SUBMIT' button. Below this is a table with columns 'SI No', 'Roll No', 'Name', and a list of subject codes. A second table below it lists subjects with columns 'SI No', 'Code', and 'Subject'. A blue arrow points from this table to a text box that says 'Copy and paste this entire table below . (mind the position of quotes)'. Another blue arrow points from the text box to a code editor. The code editor shows a Python script in 'main.py' that uses the 'sub_map_data' variable to create a 'sub_map_dict' from the subject data. The script includes comments and uses 'split' and 'defaultdict' to process the data. At the bottom, there is a table showing 'Subject Name' and 'No of Hours Lost' for various subjects.

SI No	Code	Subject
1	101009/IT500A	SOFTWARE DESIGN WITH UML
2	101009/IT500B	COMPILER DESIGN
3	101009/MS500C	FUNDAMENTALS OF MANAGEMENT
4	101009/MS500D	BUSINESS STRATEGY
5	101009/EN500E	BUSINESS COMMUNICATION & VALUE SCIENCE III
6	101009/IT503F	MACHINE LEARNING
7	101009/IT522G	COMPILER DESIGN LAB (LEX & YACC)
8	100004/IT501H	WIRELESS COMMUNICATION
9	101009/IT522S	MACHINE LEARNING LAB
10	101009/IT522T	MINI PROJECT

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Subject Name	No of Hours Lost
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COMPILER	6
BUSINESS	4
MACHINE	4