

attendance_calculator

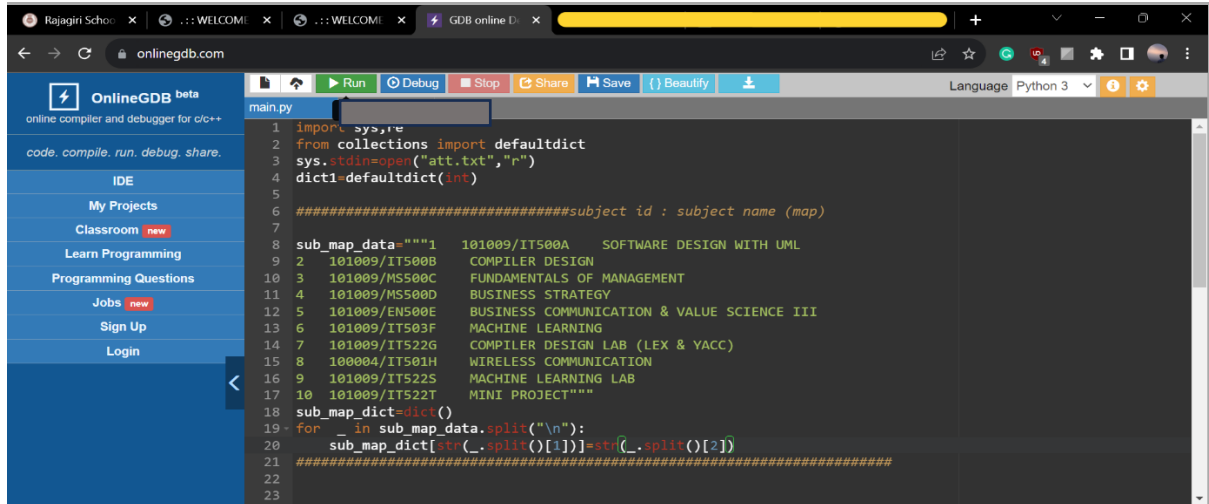
Simple program to calculate how much attendance per subject is lost

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)

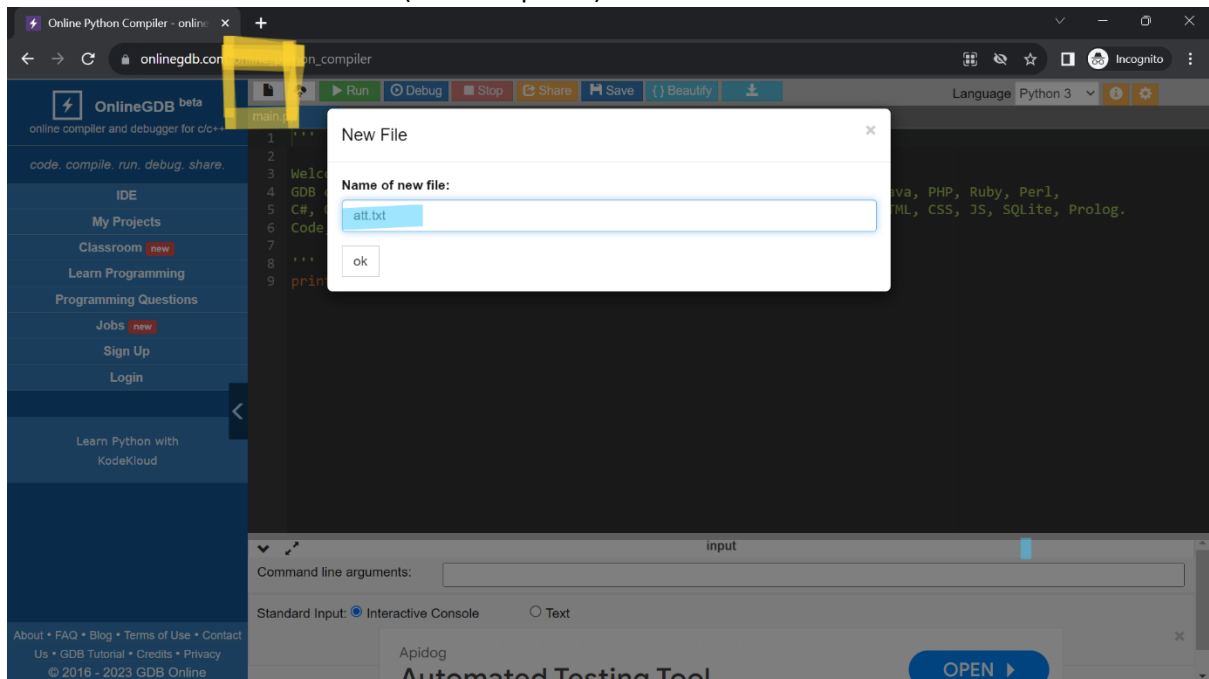
Copy paste my main.py code into your online gdb main.py



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 names. It then defines a list 'sub_map_data' containing course details and a function 'sub_map_dict' that processes this data into a dictionary. The script ends with a print statement for the resulting dictionary.

```
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

onlinegdb.com

```

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 is as follows:

```
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
```

Below the code, a table shows the input data:

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 code in main.py is as follows:

```
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
```

Below the code, a table shows the input data:

Subject Name	No of Hours Lost
COMPILER DESIGN	6
COMPILER DESIGN LAB (LEX & YACC)	6
BUSINESS COMMUNICATION & VALUE SCIENCE III	4
MACHINE LEARNING	4
MINI PROJECT	3
BUSINESS STRATEGY	3
SOFTWARE DESIGN WITH UML	1
FUNDAMENTALS OF MANAGEMENT	1
WIRELESS COMMUNICATION	0
MACHINE LEARNING LAB	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 form with 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 dictionary mapping subject codes to subject names. The script is as follows:

```
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
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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
```

At the bottom of the code editor, there is a table titled 'input' with columns 'Subject Name' and 'No of Hours Lost'. The table contains the following data:

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