

OOP LAB #09

LAB TASK- File Handling

Submission:

You have to submit a word /pdf file that will contain task number, code of the task [Copy paste the code] and screenshot of the output.

1. Create the design for a program that keeps track of the hits, walks, and outs of a baseball team. Use a concept of 2D arrays to keep track of each player's statistics. The player number is the index of the row. Read the data from the file which contains data that includes the player number, hits, walks, outs and At Bats.

baseball.txt

Player	Hits	Walks	Outs	At Bats
1	4	4	4	12
2	3	12	15	30
3	6	8	10	24
4	5	5	8	18
5	2	2	2	6
6	6	0	0	6
7	0	0	6	6
8	6	10	2	18
9	6	4	2	12
10	6	6	6	18
11	14	2	2	18
12	0	0	0	0
13	8	1	3	12
14	2	4	6	12
15	0	0	0	0
16	0	0	0	0
17	4	2	6	12
18	9	8	1	18
19	3	2	1	6
20	0	10	14	24

1. write a function that read the data from the file baseball.txt and store it a 2D array
hint while reding the file don't read the first line as it contains string.
2. write a function that find the player number with the highest Hits (**you are not allowed to use built-in functions**)
3. write a function that find the player number with the highest Walks (**you are not allowed to use built-in functions**)
4. write a function that find the player number with the highest Outs (**you are not allowed to use built-in functions**)
5. write a function that find the player number with the highest At bats (**you are not allowed to use built-in functions**)
6. write a function that will write and also print the player numbers who have highest hits, walks, Outs and at bats in a performance.txt

performance.txt will be like this:

```
Player 11 had the most hits
Player 2 had the most walks
Player 2 had the most outs
Player 2 had the most at bats
```

2. Restaurant Management system:

Define a function called `display_menu` that display the menu of the restaurant. Suppose you have a file named `menu.txt` that contains menu, use that file to display menu from `menu.txt`. Define a function called `order`, this function should ask the user to select the dishes from the menu and ask the user again and again until user say no (hint: save the name of dishes in an array).

Define a function called `generate_bill`, this function takes array as a parameter and on the basis of dishes selected generate and display a bill on screen as well as write the same bill in `bill.txt`.

Menu.txt

CHOP - SUEY		
Beef Chop Suey	.....	410.00
Chinese Chop Suey	.....	410.00
Vegetable Chop Suey	.....	320.00
Prawn Chop Suey	.....	440.00
Fish Chop Suey	.....	440.00
Chicken Chop Suey	.....	410.00
American Chop Suey	.....	440.00
Beef Button Mushroom Chop Suey	.....	440.00
Chkn. Button Mushroom Chop Suey	.....	440.00
Prawn Button Mushroom Chop Suey	.....	440.00
Chicken & Pineapple Chop Suey	.....	440.00
Beef Pineapple Chop Suey	.....	440.00
Prawn Pineapple Chop Suey	.....	440.00

Bill.txt

Fish chop souy	440
Chicken chop souy	410
Tax17%	144.5
Total bill	994.5