



SOFT6017 PROJECT

- Due: Lab in Week 10 .
- Submit your code as a single zipped file
- Include Python files, text files and evidence of Git
- Oral **assessment & demonstration** may take place.
- Worth: 15% SOFT6017's overall mark
- Code will be tested for **plagiarism** (refer http://www.cit.ie/aboutcit/reports_plansandpolicies/academic for MTU policies)

THE MUSIC FARM FESTIVAL 2024 AY

Create a booking system for the *Music Farm Festival*. There are three different types of tickets that may be purchased.

- Day 1 ticket (€850)
- Day 2 ticket (€850)
- Weekend-Camp (€2000)

A file `Bookings_2024.txt` is used to store the list of ticket types and the amount charged.

This file is also used to record the number of tickets bought in each category and the max available in each category. Currently there are no tickets sold.

Sales_2022.txt

Day1,850,50,0

Day2,850,50,0

Weekend-Camp,2000,10,0

Each line stores three pieces of data:

- The type of ticket
- The cost of a ticket
- The max number of this type of ticket.
- The current no. tickets sold

1. Booking a Ticket

When purchasing a ticket the user must enter the following details

- Choose a ticket type
- Contact Name
- Contact number
- the total number of tickets required of this type (max 4 tickets)

For those who choose the Weekend Camp package a fine dining restaurant pass is included.

Others are asked if they want to include this for the whole group– the charge is fine €20 a day per person in the group. This is only available on an all group basis.

The file `extras.txt` keeps track of the number attending the fine dining .

Extras.txt

```
FineDiningDay1,0  
FineDiningDay2,0
```

Once a ticket(s) is purchased a file is created with the name of the contact (You can assume each name is unique) ie If the name on the booking is Kay Walsh a file called Kay_Walsh_sale.txt is created.

This file stores the type of ticket bought , the phone number, the number in the group , the total cost and a note to say if fine dining is included.

The following validation should be done as a ticket purchase is made:

- The family name must be greater than 0 and less than 15 characters
- The user must enter Y or N to the question about a fine dining

2. Bookings Review

The system also allows the festival organisers to review all the bookings to date. This shows

- the number of tickets sold for each type of ticket
- the number of people with passes to the fine dining area on each day.

3. Exit

The bookings file `Sales_2024.txt` only needs to be updated when the user chooses exit from the application. The `extras.txt` file is also updated whenever the user exits. For example if you run the program and book day 1 tickets for 2 people and include a dining pass and immediately quit then the files will contain the following data.

Sales_2022.txt

```
Day1,850,50,2  
Day2,850,50,0  
Weekend-Deluxe,2000,10,0
```

Extras.txt

```
FineDiningDay1,2  
FineDiningDay2,0
```

Sample Output – Making a Booking

MUSIC FARM FESTIVAL

=====

1. Make a Booking
2. Review Bookings
3. Exit

=>1

MUSIC FARM FESTIVAL (BOOKING)

=====

Enter your name => **Ann Ford**

Enter your phone number => **08612345**

Choose the ticket type:

1. Day 1
2. Day 2
3. Weekend-Camp

=>1

How many people in your group? **2**

Do you require a fine dining pass (Y/N)? **Y**

Booking Details

Name:	Ann Ford
Ticket Type:	Day1
No of People:	2
Fine Dining:	Yes
Total Cost:	€XXX

Press Return to continue:

For this booking the above details are also stored in Ann_Ford_sale.txt.

Sample Output – Review Bookings

MUSIC FARM FESTIVAL

=====

1. Make a Booking
2. Review Bookings
3. -
4. -
5. -
6. Exit

=> 2

MUSIC FARM FESTIVAL- SUMMARY
=====

Day 1	2
Day 2	0
Weekend-Camp	0
Fine Dining Day 1	2
Fine Dining Day 2	0