Creating Book Databases

```
In [7]: import datetime
import json
```

Databases of books that contains | dictionary

```
In [2]: # getting the issue date and return date

def issue_date():
    d = datetime.date.today()
    date = d.strftime('%d-%m-%Y')
    return date

def return_date():
    dt2 = datetime.timedelta(days=7)
    d = datetime.date.today() + dt2
    date = d.strftime('%d-%m-%Y')
    return date
```

Function for getting the book id

```
In [39]: def get bookid():
             book lst = []
             for i in range(3):
                 i = input()
                 if i == 'q':
                     break
                 elif str(i) in book db.keys():
                                                 # logic check whether the book is present inside
                     book lst.append(i)
                     if book db[i]['quantity'] >= 0:
                         book db[i]['quantity'] = str(int(book_db[i]['quantity'])- 1) # if the book is presel
                     else:
                         print('Book Not available')
                 else:
                     print('Currently the book is not available ')
             return book lst
```

Adding Books to Books Database

```
In [5]: # books database
books_data = {}
```

```
In [37]: # master books
         fd = open('book data.json','r')
         txt = fd.read()
         fd.close()
         book db = json.loads(txt)
         # inputing the data of the books
                                                                         : '))
         book id
                     = str(input('Enter the books id
         book name
                           input('Enter the name of the book
         quantity
                           input('Enter the quantity of book available
                           input('Enter the Genre of the book
                                                                         : ')
         genre
                           input('Enter the price of the book
         price
         author
                           input('Enter the name of the author
         # temporary books
         books = \{\}
         books ['book name'] = book name
         books ['quantity'] = quantity
         books ['genre'] = genre
         books ['price'] = price
         books ['author'] = author
         books data[book id] = books
         text = json.dumps(books data)
         fd = open('book data.json','w')
         fd.write(text)
         fd.close()
         Enter the books id
                                                : 1001
                                                : Kimentsu no yaiba
         Enter the name of the book
         Enter the quantity of book available : 25
         Enter the Genre of the book
                                                : Comics
                                      : 25
         Enter the price of the book
```

: Nakasaki

Adding more students to Students database

Enter the name of the author

```
In [10]: # students database
students_data = {}
```

```
In [40]: # master books
        fd = open('student data.json','r')
        text = fd.read()
        fd.close()
        # converting the json data in dictionary
        students data = json.loads(text)
        # inputs
        : '))
                                                                  : ')
                                                                   : ')
        return date
                            = return date
        # temporary student data dictionary
        students = {}
        students ['stud name']
                                = stud name
        students_['grad_year'] = grad_year
        students ['grad degree'] = grad degree
        students ['books issued'] = books issued
        students ['issue date']
                                = issue date()
        students ['return date']
                                = return date()
        # adding all the temporary data to the master dictionary
        students data[student id] = students
        # converting back to text
        text = json.dumps(students data)
        # adding the data to the student database
        fd = open('student data.json','w')
        fd.write(text)
        fd.close()
```

Enter your Name : Mahendra Enter your Graduation Year : 2023 Enter your Graduation Degree : B.Tech

1000 10002

Currently the book is not available

1002

Currently the book is not available