Test Report

This report consists of the test case outputs obtained after running them during TDD, performed while developing the production code and testing it simultaneously.

1. Add books in the library
   Output:

```
PS C:\Users\devanshi\Desktop\Data Analytics\Incubyte> python -m unittest Test_cases.py
Book 'The Great Gatsby' added to the library with ISBN '1'.
.
----------------------------------------------------------------------
Ran 1 test in 0.013s

OK
```

2. Borrow the book available in the library
   Output:

```
PS C:\Users\devanshi\Desktop\Data Analytics\Incubyte> python -m unittest Test_cases.py
Book 'The Great Gatsby' added to the library with ISBN '1'.
Book 'To Kill a Mockingbird' added to the library with ISBN '2'.
Book has been borrowed
  ISBN                 Title              Author Publication Year Is Borrowed
0    1       The Great Gatsby  F. Scott Fitzgerald          1925        True
1    2  To Kill a Mockingbird          Harper Lee           1960       False
.
----------------------------------------------------------------------
Ran 1 test in 0.035s

OK
```

3. Borrowing the book which is already borrowed
   Output:

```
PS C:\Users\devanshi\Desktop\Data Analytics\Incubyte> python -m unittest Test_cases.py
Book 'The Great Gatsby' added to the library with ISBN '1'.
Book has been borrowed
  ISBN             Title              Author Publication Year Is Borrowed
0    1  The Great Gatsby  F. Scott Fitzgerald          1925        True
Book is not available to borrow
.
----------------------------------------------------------------------
Ran 1 test in 0.010s

OK
```

4. Borrow a book which does not in the library
   Output:

```
PS C:\Users\devanshi\Desktop\Data Analytics\Incubyte> python -m unittest Test_cases.py
Book 'The Twilight Saga' added to the library with ISBN '1'.
Book not present
.
----------------------------------------------------------------------
Ran 1 test in 0.004s

OK
```

5. Return the borrowed book
   Output:

```
PS C:\Users\devanshi\Desktop\Data Analytics\Incubyte> python -m unittest Test_cases.py
Book 'The Great Gatsby' added to the library with ISBN '1'.
Book 'The Twilight Saga' added to the library with ISBN '2'.
Book 'The Great Gatsby' added to the library with ISBN '3'.
Book has been borrowed
   ISBN            Title               Author Publication Year Is Borrowed
0    1    The Great Gatsby  F. Scott Fitzgerald              1925       False
1    2  The Twilight Saga       Stephenie Meyer              2005       False
2    3    The Great Gatsby  F. Scott Fitzgerald              1925        True
Book has been returned
   ISBN            Title               Author Publication Year Is Borrowed
0    1    The Great Gatsby  F. Scott Fitzgerald              1925       False
1    2  The Twilight Saga       Stephenie Meyer              2005       False
2    3    The Great Gatsby  F. Scott Fitzgerald              1925       False
.
----------------------------------------------------------------------
Ran 1 test in 0.054s

OK
```

6. Return a book which was not borrowed
   Output:

```
PS C:\Users\devanshi\Desktop\Data Analytics\Incubyte> python -m unittest Test_cases.py
Book 'The Great Gatsby' added to the library with ISBN '1'.
Book 'The Twilight Saga' added to the library with ISBN '2'.
Book 'The Great Gatsby' added to the library with ISBN '3'.
Book has been borrowed
   ISBN            Title               Author Publication Year Is Borrowed
0    1    The Great Gatsby  F. Scott Fitzgerald              1925       False
1    2  The Twilight Saga       Stephenie Meyer              2005        True
2    3    The Great Gatsby  F. Scott Fitzgerald              1925       False
Book is already there. Check the ISBN code again.
.
----------------------------------------------------------------------
Ran 1 test in 0.015s

OK
```

7. Return a book that is not even added to the library
   Output:

```
PS C:\Users\devanshi\Desktop\Data Analytics\Incubyte> python -m unittest Test_cases.py
Book 'The Great Gatsby' added to the library with ISBN '1'.
Book 'The Twilight Saga' added to the library with ISBN '2'.
Book 'The Great Gatsby' added to the library with ISBN '3'.
The book which you want to return is not registered in the system.
.
-------------------------------------------------------------------
Ran 1 test in 0.006s

OK
```

8. Return all the books which are available in the library
   Output:

```
PS C:\Users\devanshi\Desktop\Data Analytics\Incubyte> python -m unittest Test_cases.py
Book 'The Great Gatsby' added to the library with ISBN '1'.
Book 'The Twilight Saga' added to the library with ISBN '2'.
Book 'To Kill a Mockingbird' added to the library with ISBN '3'.
Book 'The Great Gatsby' added to the library with ISBN '4'.
Book has been borrowed
   ISBN                 Title              Author Publication Year Is Borrowed
0    1        The Great Gatsby  F. Scott Fitzgerald             1925       False
1    2        The Twilight Saga      Stephenie Meyer             2005       False
2    3  To Kill a Mockingbird           Harper Lee             1960       False
3    4        The Great Gatsby  F. Scott Fitzgerald             1925        True
Book has been borrowed
   ISBN                 Title              Author Publication Year Is Borrowed
0    1        The Great Gatsby  F. Scott Fitzgerald             1925       False
1    2        The Twilight Saga      Stephenie Meyer             2005        True
2    3  To Kill a Mockingbird           Harper Lee             1960       False
3    4        The Great Gatsby  F. Scott Fitzgerald             1925        True
Book has been returned
   ISBN                 Title              Author Publication Year Is Borrowed
0    1        The Great Gatsby  F. Scott Fitzgerald             1925       False
1    2        The Twilight Saga      Stephenie Meyer             2005        True
2    3  To Kill a Mockingbird           Harper Lee             1960       False
3    4        The Great Gatsby  F. Scott Fitzgerald             1925       False
Available books:
   ISBN                 Title              Author Publication Year Is Borrowed
0    1        The Great Gatsby  F. Scott Fitzgerald             1925       False
2    3  To Kill a Mockingbird           Harper Lee             1960       False
3    4        The Great Gatsby  F. Scott Fitzgerald             1925       False
.
-------------------------------------------------------------------
Ran 1 test in 0.121s

OK
```