class Book:

def \_\_init\_\_(self, book\_id, title, author, publisher, call\_number=None):

self.book\_id = book\_id

self.title = title

self.author = author

self.publisher = publisher

self.call\_number = call\_number

class CataloguingSection:

def \_\_init\_\_(self):

self.catalogued\_books = {}

def assign\_call\_number(self, book, call\_number):

book.call\_number = call\_number

self.catalogued\_books[book.book\_id] = book

def place\_on\_shelf(self, book\_id):

if book\_id in self.catalogued\_books:

book = self.catalogued\_books[book\_id]

print(f"Book '{book.title}' by {book.author} is placed on the shelf with call number: {book.call\_number}")

else:

print("Book not found in the catalogued books.")

# Example usage:

if \_\_name\_\_ == '\_\_main\_\_':

cataloguing\_section = CataloguingSection()

# Assume the books have been acquired and recorded in the system.

book1 = Book(1, 'Book A', 'Author X', 'Publisher P')

book2 = Book(2, 'Book B', 'Author Y', 'Publisher Q')

book3 = Book(3, 'Book C', 'Author Z', 'Publisher R')

# Assign call numbers to the books during cataloguing.

cataloguing\_section.assign\_call\_number(book1, 'BX101')

cataloguing\_section.assign\_call\_number(book2, 'BY202')

cataloguing\_section.assign\_call\_number(book3, 'BZ303')

# Place catalogued books on the shelf.

cataloguing\_section.place\_on\_shelf(1)

cataloguing\_section.place\_on\_shelf(2)

cataloguing\_section.place\_on\_shelf(3)