

2. Library Management System

Program :

```
from abc import ABC, abstractmethod
```

```
# Abstraction
```

```
class LibraryItem(ABC):
```

```
    def __init__(self, book_name):
```

```
        self.book_name = book_name
```

```
# Abstract method
```

```
@abstractmethod
```

```
def issue(self):
```

```
    pass
```

```
# Inheritance
```

```
class Book(LibraryItem):
```

```
    def __init__(self, book_name):
```

```
        super().__init__(book_name)
```

```
# Method Overriding (Polymorphism)
```

```
def issue(self):
```

```
    print(f"Book '{self.book_name}' issued for 14 days")
```

```
# ---- Main Program ----
```

```
book_name = input("Enter Book Name: ")
```

```
b1 = Book(book_name)
```

```
b1.issue()
```

Output :

Enter Book Name: Python basics

Book 'Python basics' issued for 14 days

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