```
1 # StudentClass.py
class Student:
     count = 0
     def __init__(self, name=None,age = None,course = None, hometown=None):
         self.Name = name
         self.Age = age
         self.__Course = course
         self.__ID = None
         self._Hometown = hometown
         if name and age and course and hometown:
             self.__register()
     def get_name(self):
         return self.Name
     def get_age(self):
         return self.Age
     def get_course(self):
         return self.__Course
     def get_ID(self):
         return self.__ID
     def get_hometown(self):
         return self._Hometown
     def __register(self):
         Student.count += 1
         self.__ID = Student.count
         return self.__ID
```

```
from LibraryItemClass import LibraryItem
def __init__(self, book_title, book_author, book_category, book_id, count, id):
     super().__init__(count,id)
     self.__title = book_title
     self.__author = book_author
     self.__category = book_category
    self.__id = book_id
def print_book_details(self):
     print(self.__title)
     print(self.__author)
     print(self.__category)
     print(self.__id)
# Getter for the title attribute
def get_title(self):
    return self.__title
def search(self,title,author=None):
     if author:
         print(f"searching book by author: {author} ")
         print(f"Searching by title: {title}")
def check_out(self):
     print(f"Invoking absract method from child class {__name__}}")
```