Final Lab 02

```python
class car:
  tax=4
  def __init__(self,color, model, seat_num, price):
    self.color = color
    self.model = model
    self.seat_num = seat_num
    self.price = price

  def display(self):
    print("Color: ", self.color)
    print("Model: ", self.model)
    print("Seat Number: ", self.seat_num)
    print("Price: ", self.price)
  @classmethod
  def change_tax(cls, tax): # cls for class methods
    cls.tax = tax

  @staticmethod
  def check_price(price):
    if price > 20000000:
      return True
    else:
      return False
audi= car("Red","X6", 4, 30000000)
bmw = car("Blue", "X7", 6, 40000000)
audi.display()
bmw.display()
car.check_price(audi.price)
```

```
Color:  Red
Model:  X6
Seat Number:  4
Price:  30000000
Color:  Blue
Model:  X7
Seat Number:  6
Price:  40000000
True
```

Problem 1

```python
class Library:
    books={}
    totalbooks=0
    @classmethod
    def totalbooks_count(cls):
        return cls.totalbooks

    def add_books(self, title):
        if title in self.books.keys():
            self.books[title]+=1
        else:
            self.books[title]=1
        Library.totalbooks+=1

    def remove_books(self, title):
        if self.books[title]>0:
            self.books[title]-=1
            Library.totalbooks-=1
        else:
            print("Remove is not possible")

    def lend_books(self, title):
        if self.books[title]>0:
            self.books[title]-=1
            Library.totalbooks-=1
```

```python
        else:
            print("Lend is not possible")


    def return_books(self, title):
        self.books[title]+=1
        Library.totalbooks+=1

    @staticmethod
    def is_valid_isbn(isbn):
        x=len(str(isbn))
        if x >11 and isbn.isdigit():
            return True
        else:
            return False


book1= Library()
book1.add_books("book1")
book1.add_books("book1")
book1.add_books("book2")
book1.add_books("book2")
print(book1.books)

print()
book1.remove_books("book1")
book1.lend_books("book1")
book1.return_books("book1")
book1.lend_books("book1")
print(book1.books)
print(Library.totalbooks_count())
print(book1.books)

print(Library.is_valid_isbn("1547589545555"))
print(Library.is_valid_isbn("Adsh15478555"))
```

```
{'book1': 2, 'book2': 2}

{'book1': 0, 'book2': 2}
2
{'book1': 0, 'book2': 2}
True
False
```