Roll No: _____   **Name: _____**

Note: You are not required to write main code.

Q1. Consider the given code and rewrite code using OOP concepts:

```
class Book:
 def __init__(self, no, title, author, publisher, edition):
  self.book_no = no
  self.title = title
  self.author = author
  self.publisher = publisher
  self.edition = edition

 def __str__(self):
  st = f'Book Number: {self.book_no}\nTitle: {self.title}\nAuthor: {self.author}\nPublisher: {self.publisher}\n'
  return st + f'Edition: {self.edition}'

class ReferenceBook:
 def __init__(self, no, title, author, publisher, edition):
  self.book_no = book_no
  self.title = title
  self.author = author
  self.publisher = publisher
  self.edition = edition

 def __str__(self):
  st = f'Book Number: {self.book_no}\nTitle: {self.title}\nAuthor: {self.author}\nPublisher: {self.publisher}\n'
  return st + f'Edition: {self.edition}\n*** Reference Book ***'

class Magazine:
 def __init__(self, no, title, publisher, month, year):
  self.book_no = no
  self.title = title
  self.publisher = publisher
  self.month = month
  self.year = year

 def __str__(self):
  st = f'Magazine Number: {self.book_no}\nTitle: {self.title}\n\nPublisher: {self.publisher}\n'
  return st + f' Month: {self.month}\nYear: {self.year}'
```

Q2. Consider classes in question one; write Library class having a common list. Create init function without parameter and input. Write three method to add book, reference book and magazine. Write str function to concatenate all items in separate line, with books on top, followed by reference books, followed by magazines?