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import re

import random

class Member:

def \_init\_(self,mem\_id,name,email):

self.mem\_id=mem\_id

self.name=name

self.email=email

def verify\_email(self):

ex=r'[a-z0-9.\_%+-]+@gmail.com$'

if re.match(ex, self.email):

print("Valid email id")

else:

print("Invalid email id")

def verify\_number(self):

Id=r'^LIB\d{4}$'

if re.match(Id, self.mem\_id):

print("Valid member id")

else:

self.generate\_id()

def generate\_id(self):

self.mem\_i ="LIB"+str(random.randint(1000,9999))

print("Generated new member id:",self.mem\_id)

class Library(Member):

def \_init\_(self, mem\_id, name, email, book\_id, title, author):

Member.\_init\_(self,mem\_id,name, email)

self.book\_id=book\_id

self.title=title

self.author=author

def display(self):

print("Member id: ",self.mem\_id)

print("Name: ",self.name)

print("Email: ",self.email)

print("Book id: ",self.book\_id)

print("Title: ",self.title)

print("Author: ",self.author)

mem\_id=input("Enter the member id:")

name=input("Enter the name:")

email=input("Enter the email:")

book\_id=input("Enter the book id:")

title=input("Enter the title:")

author=input("Enter the author:")

lib=Library(mem\_id,name,email,book\_id,title,author)

lib.verify\_email()

lib.verify\_number()

lib.display()