**(LAB – 3)**

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Q.1 Create a class for university library. The class must have following functions:

1. Contain books for all branches running in the campus.

2. Every branch has separate book-shelf number. Guide the students to proceed for specific shelf only.

3. Every book has one unique book code. Provide the facility to a student to search a book with its code.

4. Don’t issue any book to a student if he/she already has three books issued with them.

**Program:**

def inp():

  print("1. Search shelf from department")

  print("2. Search from book code")

  ch = input("enter your choice 1/2 --")

  return(ch)

def issue():

  c=0

  if c<3:

    issue = input("want to issue y/n --")

    if issue  == 'y':

      c=c+1

      inp()

    else:

      print("your issue are-",c)

      inp()

  else:

    print("issue limit reached")

class Library:

  def main(self,choice,b,d):

    if(choice==1):

      self.dp = input("enter your department --")

      for d\_name in d.keys():

        if self.dp == d\_name:

            print("shelf no. - ",d.get(d\_name))

    elif(choice==2):

      self.dp = input("enter the code of book --")

      for b\_code in b.keys():

        if int(self.dp) == b\_code:

            print("book name - ",b.get(b\_code))

            issue()

    else:

      print("enter valid choice")

      inp()

book = {148: "cprogramming",

          123: "indian law"}

dept = {"science":3,

        "law":4}

print("-----Welcome to Christ library------------")

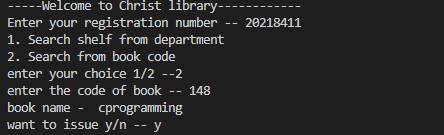
reg = input("Enter your registration number --")

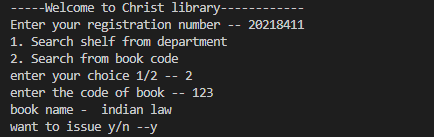
choice = inp()

p1 = Library()

p1.main(int(choice),book,dept)

**OUTPUT:**

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