```
class booklist:
    def _init_(self,book1,book2,book3,book4,book5,book6):
        self.book1=book1
        self.book2=book2
        self.book3=book3
        self.book4=book4
        self.book5=book5
        self.book6=book5
    def _str_(self):
        return f"book1: {self.book1}\nbook2: {self.book2}\nbook3:
{self.book3}\nbook4: {self.book4}\nbook5: {self.book5}\nbook6: {self.book6}"
class borrowbook:
    def _init_(self,Idcard,department,year):
        self.Idcard=Idcard
        self.department=department
        self.year=year
    def _str_(self):
        return f"Idcard: {self.Idcard}\ndepartment: {self.department}\nyear:
{self.year}"
class returnbook:
    def _init_(self,Idcard,department,year,registernote,book):
        self.Idcard=Idcard
        self.department=department
        self.year=year
        self.registernote=registernote
        self.book=book
    def _str_(self):
        return "Idcard: {self.Idcard}\ndepartment: {self.department}\nyear:
{self.year}\nregister note: {self.register note}\nbook: {self.book}"
class donatebook:
    def _init_(self,bookname ,writername):
        self.bookname=bookname
        self.writername=writername
    def _str_(self):
        return f"bookname {self.bookname}\nwritername: {self.writername}"
class trackbook:
    def _init_(self,book):
        self.book=book
    def _str_(self):
        return f"book: {self.book}"
class librarymangement:
    def _init_(self):
        self.booklist=[]
        self.borrowbook=[]
        self.returnbook=[]
        self.donatebook=[]
        self.trackbook=[]
```

```
    def add_booklist(self,booklist):
        self.booklist.append(booklist)
        print("book list added the system")

    def add_borrowbook(self,borrowbook):
        self.borrowbook.append(borrowbook)
        print("borrow books from the library")

    def add_returnbook(self,returnbook):
        self.returnbook.append(returnbook)
        print("return book from the library")

    def add_donatebook(self,donatebook):
        self.donatebook.append(donatebook)
        print("donate book from the library")

    def add_trackbook(self,trackbook):
        self.trackbook.append(trackbook)
        print("track book from the library")
def main():
    library_mangement=librarymangement
    ()

    while True:
        print("\n options:")
        print("1.book list")
        print("2.borrow book")
        print("3.return book")
        print("4.donate book")
        print("5.track book")
        print("6.exit")
        choice=input("enter your choice")

        if choice=="1":
            book1=input("enter 1st book name:")
            book2=input("enter 2nd book name:")
            book3=input("enter 3rd book name:")
            book4=input("enter 4th book name:")
            book5=input("enter 5th book name:")
            bool6=input("enter 6th book name:")
            booklist=booklist(book1,book2,book3,book4,book5,book6)
            library_mangement.add_booklist(booklist)
        elif choice=="2":
            Idcard=input("enter register number:")
            department=input("enter the department name:")
            year=input("enter the year:")
            borrowbook=(Idcard,department,year)
            library_mangement.add_borrowbook(borrowbook)
```

```
        elif choice=="3":
            Idcard=input("enter register number:")
            department=input("enter the department name")
            year=input("enter the year")
            registernote=input("enter the date and time:")
            book=input("enter the book name:")
            returnbook=(Idcard,department,year,registernote,book)
            library_mangement.add_returnbook(returnbook)
        elif choice=="4":
            bookname=input("enter the bookname:")
            writername=input("enter the writername:")
            donatebook=(bookname,writername)
            library_mangement.add_donatebook(donatebook)
        elif choice=="5":
            book=input("enter the book name:")
            trackbook=(book)
            library_mangement.add_trackbook(trackbook)
        elif choice=="6":
            print("Thank you for using the Library Management System. Goodbye!")
            break
        else:
            print("\nInvalid choice. Please try again.")
if __name__ == "__main__":
    main()
```