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**Assignment No 2**

**package** inherit;

**import** java.util.\*;

//Class Publication

**class** Publication{

**private** String title;

**int** copies;

**double** price;

**static** **double** *TotalSale*=0;

//read() method to read the details of the Publication

**void** read() {

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter the details for the following Entities...................");

System.***out***.println("Enter the title :");

title=sc.nextLine();

System.***out***.println("Price\_per\_copy :");

price=sc.nextDouble();

System.***out***.println("No.\_of\_copies :");

copies=sc.nextInt();

}

//display() method to display the details of the Publication

**void** display() {

System.***out***.println("The Details for the entity are as follows...................");

System.***out***.println("Title : "+title);

System.***out***.println("Price\_per\_Copy : "+price);

System.***out***.println("No. of copies available : "+copies);

}

//sellcopy() method to sell an entity of the Publication

**void** sell\_Copy() {

Scanner ss=**new** Scanner(System.***in***);

System.***out***.println("Enter no. of Copies to be sold : ");

**int** x=ss.nextInt();

**if**(x<copies) {

System.***out***.println("Available for sale...........");

**double** total=price\*x;

*TotalSale*+=total;

copies=copies-x;

System.***out***.println("The total bill is : "+total+" Rs.");

System.***out***.println("Sold...............");

System.***out***.println("No. of copies availble in stock : "+copies);

}

**else** {

System.***out***.println("Out of Stock.....Try with less no of copies.");

}

}

}

//Class Book

**class** Book **extends** Publication{

**private** String author;

//read\_Book() method to read the details of the Book

**void** read\_Book(){

read();

Scanner s=**new** Scanner(System.***in***);

System.***out***.println("Enter the author :");

author=s.nextLine();

}

//display\_Book() method to display the details of the Book

**void** display\_Book() {

display();

System.***out***.println("Author : "+author);

}

//orderCopies() method to order an entity of the Book

**void** orderCopies() {

System.***out***.println("The no. of copies available : "+copies);

Scanner sb=**new** Scanner(System.***in***);

System.***out***.println("Enter no. of Copies to be ordered : ");

**int** y=sb.nextInt();

copies=copies+y;

System.***out***.println("The updated stock is : "+copies);

}

}

//Class Magazine

**class** Magazine **extends** Publication{

**private** **int** orderQty;

**private** String month;

//read\_Magazine() method to read the details of the Magazine

**void** read\_Magazine() {

read();

Scanner s=**new** Scanner(System.***in***);

System.***out***.println("Enter the month of issue :");

month=s.nextLine();

}

//display\_Magazine() method to display the details of the Magazine

**void** display\_Magazine() {

display();

System.***out***.println("Month of issue : "+month);

}

//receiveNewIssue() method to receive the new Edition of the Magazine

**void** receiveNewIssue(){

Scanner sd=**new** Scanner(System.***in***);

System.***out***.println("Enter the new month of issue : ");

String newMonth=sd.nextLine();

month=newMonth;

System.***out***.println("Enter the quantity of new magazines received : ");

orderQty=sd.nextInt();

copies=orderQty;

display();

}

}

//Class Demo

**public** **class** Demo {

**public** **static** **void** main(String[] args) {

Book a=**new** Book();

Magazine b=**new** Magazine();

**int** y=1;

**while**(y==1) {

Scanner sp=**new** Scanner(System.***in***);

System.***out***.println("...........................Welcome to MyPublications..........................");

System.***out***.println("Select from below \n 1.To read data for Book \n 2.To display details of a book \n 3.To salecopy of a book \n 4.To ordercopy of a book \n 5.To read data for Magazine \n 6.To display details of a Magazine \n 7.To salecopy of magazine \n 8.To receive New Isssue of a Magazine \n 9.Exit");

**int** x=sp.nextInt();

**switch**(x) {

**case** 1:

a.read\_Book();

**break**;

**case** 2:

a.display\_Book();

**break**;

**case** 3:

a.sell\_Copy();

**break**;

**case** 4:

a.orderCopies();

**break**;

**case** 5:

b.read\_Magazine();

**break**;

**case** 6:

b.display\_Magazine();

**break**;

**case** 7:

b.sell\_Copy();

**break**;

**case** 8:

b.receiveNewIssue();

**break**;

**case** 9:

System.*exit*(0);

**break**;

**default**:

System.***out***.println("Enter a Valid input");

}

System.***out***.println("Enter 1 to continue.........");

y=sp.nextInt();

}

Publication p=**new** Publication();

System.***out***.println("\n");

System.***out***.println("The total sale for the day is : "+p.*TotalSale*);

}

}

**OUTPUT**:

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

1

Enter the details for the following Entities...................

Enter the title :

Revolution 2020

Price\_per\_copy :

125

No.\_of\_copies :

85

Enter the author :

Chetan Bhagat

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

2

The Details for the entity are as follows...................

Title : Revolution 2020

Price\_per\_Copy : 125.0

No. of copies available : 85

Author : Chetan Bhagat

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

3

Enter no. of Copies to be sold :

80

Available for sale...........

The total bill is : 10000.0 Rs.

Sold...............

No. of copies availble in stock : 5

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

4

The no. of copies available : 5

Enter no. of Copies to be ordered :

45

The updated stock is : 50

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

5

Enter the details for the following Entities...................

Enter the title :

The Youth

Price\_per\_copy :

56

No.\_of\_copies :

200

Enter the month of issue :

September

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

6

The Details for the entity are as follows...................

Title : The Youth

Price\_per\_Copy : 56.0

No. of copies available : 200

Month of issue : September

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

7

Enter no. of Copies to be sold :

187

Available for sale...........

The total bill is : 10472.0 Rs.

Sold...............

No. of copies availble in stock : 13

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

8

Enter the new month of issue :

October

Enter the quantity of new magazines received :

350

The Details for the entity are as follows...................

Title : The Youth

Price\_per\_Copy : 56.0

No. of copies available : 350

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

2

The Details for the entity are as follows...................

Title : Revolution 2020

Price\_per\_Copy : 125.0

No. of copies available : 50

Author : Chetan Bhagat

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

6

The Details for the entity are as follows...................

Title : The Youth

Price\_per\_Copy : 56.0

No. of copies available : 350

Month of issue : October

Enter 1 to continue.........

1

...........................Welcome to MyPublications..........................

Select from below

1.To read data for Book

2.To display details of a book

3.To salecopy of a book

4.To ordercopy of a book

5.To read data for Magazine

6.To display details of a Magazine

7.To salecopy of magazine

8.To receive New Isssue of a Magazine

9.Exit

9

The total sale for the day is : 20,472.0