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OOT LAB Test 1

Lap & Test program :-

Publication question (Book / Audio cassette) :-

I

```
import java.util.Scanner;

class publication
{
    String title;
    Double price;
}

class Book extends publication
{
    int page-count;
    Scanner ss = new Scanner(System.in);

    void getData()
    {
        System.out.println("Enter the book details :");
        System.out.println("Title :");
        title = ss.next();
        System.out.println("Price :");
        price = ss.nextDouble();
        System.out.println("Page Count :");
        page-count = ss.nextInt();
    }

    void putdata()
    {
        System.out.println("The book details are :");
        System.out.println("Title : " + title);
        System.out.println("Price : " + price);
        System.out.println("Page Count : " + page-count);
    }
}
```

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OOT LAB Test #1

```
int getpagecount()  
{  
    return page-count;  
}  
}
```

```
class tape extends publications  
{
```

```
int play-time  
    play-time;
```

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

```
void getdata()  
{
```

```
    System.out.println("Enter the cassette details :");
```

```
    System.out.println("Title :");
```

```
    title = ss.next();
```

```
    System.out.println("Price :");
```

```
    price = ss.nextDouble();
```

```
    System.out.println("Play time in minutes :");
```

```
    play-time  
    play-time = ss.nextInt();
```

```
}
```

```
void putdata  
    putdata()
```

```
{  
    System.out.println("The cassette details are :");
```

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

```
    System.out.println("Price : " + price);
```

```
    System.out.println("Play time in minutes : " + play-time  
        play-time);
```

```
}
```

```

int getplaytime()
{
    return play time playing-time;
}

void getTitle()
{
    System.out.println("Title : "+title);
}

class publications main {

    public static void main (String args[])
    {
        int i, m, n, count = 0;
        int playing-time;
        Scanner ss = new Scanner (System.in);

        System.out.println("Enter the number of books : ");
        m = ss.nextInt();
        System.out.println("Enter the number of cassettes : ");
        n = ss.nextInt();

        book book b[] = new book[m];
        tape t[] = new tape[n];

        for (int i = 0; i < m; i++)
        {
            book b[i] = new book book();
            book b[i].getData();
        }

        for (int i = 0; i < n; i++)
        {
            tape t[i] = new tape();
            t[i].getData();
        }
    }
}

```

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Ques

System.out.println("The ~~books~~ with the number of pages ~~greater~~  
- greater than 500 ");

```
for (int i=0; i<m; i++)  
{
```

```
    if ( b[i].getpagecount() > 500)  
    {
```

```
        b[i].putdata();  
        count++;
```

```
    }
```

```
}  
System.out.println(" The no. of books with pages greater than 500 " +  
count);
```

```
System.out.println("Enter the playing time : ");  
playing-time = ss.nextInt();
```

```
System.out.println("The cassetts with playing time less lesser-  
- than " + playing-time + " minutes is : ");
```

```
for (int i=0; i<n; i++)  
{
```

```
    if (t[i].getplaytime < playing-time)
```

```
    {  
        t[i].putdata() gettitle;
```

```
    }
```

```
}
```

```
}
```

```
}
```

```
import java.util.Scanner;

class publication
{
    String title;
    Double price;
}

class book extends publication
{
    int page_count;
    Scanner ss=new Scanner(System.in);

    void getdata()
    {
        System.out.println("Enter the book details: ");
        System.out.println("Title: ");
        title=ss.next();
        System.out.println("Price: ");
        price=ss.nextDouble();
        System.out.println("Page Count: ");
        page_count=ss.nextInt();
    }

    void putdata()
    {
        System.out.println("The book Details are: ");
        System.out.println("Title: "+title);
        System.out.println("Price: "+price);
        System.out.println("Page Count: "+page_count);
    }

    int getpagecount()
    {
        return page_count;
    }
}
```



```
//Object passing as parameter to a method (for viva)
```

```
book getdetails(book b1)
{
    System.out.println("\nThis is inside the method returning object of class book");
    b1.title="BreakTime";
    b1.price=500.0;
    b1.page_count=330;
    return b1;
}
```

```
class tape extends publication
```

```
{
    int playing_time;

    Scanner ss=new Scanner(System.in);

    void getdata()
    {
        System.out.println("Enter the Cassette details: ");
        System.out.println("Title: ");
        title=ss.next();
        System.out.println("Price: ");
        price=ss.nextDouble();
        System.out.println("Playing time in minutes: ");
        playing_time=ss.nextInt();
    }

    void putdata()
    {
        System.out.println("The Cassette Details are: ");
        System.out.println("Title: "+title);
        System.out.println("Price: "+price);
        System.out.println("Playing time in minutes: "+playing_time);
    }

    int getplaytime()
    {
        return playing_time;
    }
}
```

```
void gettitle()
{
    System.out.println("Title: "+title);
}
```

```
}
```

```
class publicationsmain
```

```
{
```

Run | Debug

```
public static void main(String args[])
```

```
{
```

```
    int i,m,n,count=0;
```

```
    int playing_time;
```

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

```
    System.out.println("Enter the number of books: ");
```

```
    m=ss.nextInt();
```

```
    System.out.println("Enter the number of Cassettes: ");
```

```
    n=ss.nextInt();
```

```
    book b[]=new book[m];
```

```
    tape t[]=new tape[n];
```

```
    for(i=0;i<m;i++)
```

```
    {
```

```
        b[i]=new book();
```

```
        b[i].getdata();
```

```
    }
```

```
    for(i=0;i<n;i++)
```

```
    {
```

```
        t[i]=new tape();
```

```
        t[i].getdata();
```

```
    }
```

```

for(i=0;i<n;i++)
{
    t[i]=new tape();
    t[i].getdata();
}

System.out.println("The books with the number of pages greater than 500 :");
for(i=0;i<m;i++)
{
    if(b[i].getpagecount(>500)
    {
        b[i].putdata();
        count++;
    }
}

System.out.println("The no. of books with pages greater than 500: "+count);

System.out.println("Enter the playing time: ");
playing_time=ss.nextInt();

System.out.println("The Cassettes with Playing time lesser than "+playing_time+" minutes is: ");
for(i=0;i<n;i++)
{
    if(t[i].getplaytime(<playing_time)
    {
        t[i].getttitle();
    }
}

book b2=new book();
book b3=new book();

b3=b2.getdetails(b2);
b3.putdata();
}
}

```



```
Enter the number of books:
2
Enter the number of Cassettes:
2
Enter the book details:
Title:
Price:
340
Page Count:
560
Enter the book details:
Title:
OliverTwist
Price:
450
Page Count:
400
Enter the Cassette details:
Title:
Holocaust
Price:
450
Playing time in minutes:
34
Enter the Cassette details:
Title:
Life
Price:
200
Playing time in minutes:
20
The books with the number of pages greater than 500 :
The book Details are:
Title: Outbreak
Price: 340.0
Page Count: 560
The no. of books with pages greater than 500: 1
Enter the playing time:
30
The Cassettes with Playing time lesser than 30 minutes is:
Title: Life

This is inside the method returning object of class book
The book Details are:
Title: BreakTime
Price: 500.0
Page Count: 330
```