URBAN EDGE 26, 12, 23

Create a class book which contains four members: name, author, price, num_pages. Include a constructor to set the values for the members. Include methods to set and get the details of the objects. Include a toString() method that could display the complete details of the book. Develop a java program to create n book objects.

```
import java.util.Scanner;
class Books
{
    String name;
    String author;
    int price;
    int numPages;
    Books(String name, String author, int price, int
    numPages)
    {
        this.name = name;
        this.author = author;
        this.price = price;
        this.numPages = numPages;
    }
    public String toString()
    {
        String name, author, price, numPages;
        name = "Book name:" + this.name + "\n";
        author = "Author name: " + this.author + "\n";
        price = "Price:" + this.price + "\n";
        numPages = "Number of pages:" + this.numPages
                   + "\n";
```

```
        return name +author +price +numPages;
    }
}
class Main
{
    public static void main (String args[])
    {
        Scanner s = new Scanner (System.in);
        int n;
        String name;
        String author;
        int price;
        int numPages;
        System.out.println("Enter number of books");
        n=S.nextInt();
        Books b[];
        b = new Books[n];
        for(int i =0; i<n; i++)
        {
            System.out.println("Enter the name of the
            book");
            name = s.next();
            System.out.println("Enter the author of
            the book");
            author=S.next();
            System.out.println("Enter the price of
            the book");
            price = s.nextInt();
            System.out.println("Enter the number of
            pages of the book");
            numPages = S.nextInt();
            b[i] = new Books(name, author, price,
            numPages);
        }
```

```
        for(int i=0;i<n;i++)
        {
            System.out.println(b[i]);
        }
    }
}
```

output:

Name : Rani Aishwarya
USN : 1BM22CS217
Enter the number of books
2
Enter the name of the book
richard
Enter the author of the book
Vijay
Enter the price of the book
539
Enter the number of pages of the book
180
Enter the name of the book
amma
Enter the author of the book
manikanth
Enter the ~~number of pages~~ price of the book
390
Enter the number of pages of the book
140
Book name: richard
Author name: vijay
price : 539
Number of pages : 180

Book name : amma
Author name : manikanth
price : 390
Number of pages : 140.

→ Additional problems:

```
import java.util.Scanner;
class Test
{
    int a,b;
    Test(int i;int j){
        a =i; b=j;
    }
    boolean equals(Test o){
      if (o.a == a && o.b == b) return true;
      else return false;
      }
}
class PassObj
{
    public static void main(String args[]){
        Test ob1 =new Test (100,22);
        Test ob2 =new Test (100,22);
        Test ob3 = new Test (-1,-1);
        System.out.println("ob1 == ob2:"+ ob1.equals(ob
        System.out.println("ob1 == ob3"+ob1.equals(ob3));
    }
}
```

outputs

ob1 == ob2 : true
ob1 == ob3 : false.

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