WEEK 3

QUESTION:

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.

INPUT:

```
import java.util.Scanner;
class Book {
    String Name;
    String author;
    int price;
    int num_pages;
    Book(String N, String Au, int P, int Pa) {
        Name = N;
        author = Au;
        price = P;
        num_pages = Pa;
    }
    Book() {
        }
    }
```

```
void setdetails() {
  Scanner ss = new Scanner(System.in);
  System.out.println("Enter the book Name: ");
  Name = ss.nextLine();
  System.out.println("Enter the Author Name: ");
  author = ss.nextLine();
  System.out.println("Enter the Price: ");
  price = ss.nextInt();
  System.out.println("Enter the No.Of Pages: ");
  num_pages = ss.nextInt();
  System.out.println("DETAILS SET SUCCESFULLY");
}
void getdetails() {
  System.out.println("NAME: " + Name);
  System.out.println("AUTHOR: " + author);
  System.out.println("PRICE: " + price);
  System.out.println("NO.OF PAGES: " + num_pages);
}
public String toString() {
    return ("NAME: " + Name + "\nAUTHOR: " + author +
   "\nPRICE: " + price + "\nNo.Of Pages: " + num_pages);
}
```

```
}
class Bookdemo {
  public static void main(String args∏) {
     int n;
     Scanner ss = new Scanner(System.in);
     System.out.println("Enter the no of Books: ");
     n = ss.nextInt();
     Book b1[] = new Book[n];
     for (int i = 0; i < n; i++) {
       System.out.println("ENTER DETAILS:");
     System.out.println("1:set using methods\n2:set using
     constructor");
       int ch = ss.nextInt();
       if (ch == 1) {
         b1[i] = new Book();
         b1[i].setdetails();
       } else {
         b1[i] = new Book("Kings", "Kingsley", 1000, 1500);
       }
     for (int i = 0; i < n; i++) {
       System.out.println("\n PRINRING BOOK DETAILS");
       System.out.println("1:Display using methods\n2:Display using
     toString");
       int ch = ss.nextInt();
```

```
if (ch == 1) {
    b1[i].getdetails();
    System.out.println();
} else {
    String details = b1[i].toString();
    System.out.println(details);
}
}
```

OUTPUT:

Command Prompt

```
C:\Users\Admin\Documents>javac Bookdemo.java
C:\Users\Admin\Documents>java Bookdemo
Enter the no of Books:
ENTER DETAILS:
1:set using methods
2:set using constructor
Enter the book Name:
haha
Enter the Author Name:
hahaha
Enter the Price:
100
Enter the No.Of Pages:
200
DETAILS SET SUCCESFULLY
ENTER DETAILS:
1:set using methods
2:set using constructor
PRINRING BOOK DETAILS
1:Display using methods
2:Display using toString
NAME: haha
AUTHOR: hahaha
PRICE: 100
NO.OF PAGES: 200
PRINRING BOOK DETAILS
1:Display using methods
2:Display using toString
NAME: Kings
AUTHOR: Kingsley
PRICE: 1000
No.Of Pages: 1500
```