**public** **class** Evennumbers {

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

**int** num;

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

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

num=sc.nextInt();

System.***out***.println("Even Numbers are: ");

**for**(**int** i=2; i<=num;i=i+2)

{

System.***out***.print(i+"\t");

}

}

}

2.

**Rectangle.java**

**public** **class** Rectangle {

**public** **double** length;

**public** **double** breadth;

**public** **double** area;

**public** Rectangle(**double** length, **double** breadth, **double** area) {

**this**.length = length;

**this**.breadth = breadth;

**this**.area = area;

}

**public** **double** getLength() {

**return** length;

}

**public** **double** getBreadth() {

**return** breadth;

}

**public** **double** getArea() {

**return** area;

}

}

**TestRectangle.java**

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

**public** **class** TestRectangle {

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

// **TODO** Auto-generated method stub

Rectangle r1[]=*calculate*();

*display*(r1);

}

**public** **static** Rectangle[] calculate()

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

Rectangle r1[]=**new** Rectangle[2];

**for**(**int** i=0;i<5;i++)

{

System.***out***.println("Enter length:");

**double** l=sc.nextDouble();

System.***out***.println("Enter breadth:");

**double** b=sc.nextDouble();

**double** area=l\*b;

r1[i]=**new** Rectangle(l,b,area);

}

**return** r1;

}

**public** **static** **void** display(Rectangle r1[])

{

**for**(**int** i=0;i<5;i++)

{

System.***out***.println("length: "+r1[i].getLength()+"\tbreadth: "+r1[i].getBreadth()+

"\tArea: "+r1[i].getArea());

}

}

}

3.

**Book.java**

**public** **class** Book {

**public** String bookTitle;

**public** **double** bookPrice;

**public** String getBookTitle() {

**return** bookTitle;

}

**public** **void** setBookTitle(String bookTitle) {

**this**.bookTitle = bookTitle;

}

**public** **double** getBookPrice() {

**return** bookPrice;

}

**public** **void** setBookPrice(**double** bookPrice) {

**this**.bookPrice = bookPrice;

}

}

**Testbook.java**

**import** java.util.Scanner;

**public** **class** TestBook1 {

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

// **TODO** Auto-generated method stub

Book obj[]=*createBook*();

*showBook*(obj);

}

**public** **static** Book[] createBook()

{

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

System.***out***.println("How many entries: ");

**int** n=sc.nextInt();

Book b[]=**new** Book[n];

**for**(**int** i=0; i<b.length;i++)

{ b[i]=**new** Book();

System.***out***.println("Enter book name: ");

b[i].setBookTitle(sc.next());

System.***out***.println("Enter price: ");

b[i].setBookPrice(sc.nextDouble());

}

**return** b;

}

**public** **static** **void** showBook(Book t[])

{

System.***out***.println("Book Title\t\t\tPrice");

**for**(**int** i=0;i<t.length;i++)

{

Book a=t[i];

System.***out***.println(t[i].getBookTitle()+"\t\t\t\t "+t[i].getBookPrice());

}

}

}

4.

**Rectangle.java**

**public** **class** Rectangle {

**public** **double** length;

**public** **double** breadth;

**public** **double** area;

**public** **double** peri;

**public** Rectangle(**double** length, **double** breadth, **double** area,**double** peri) {

**this**.length = length;

**this**.breadth = breadth;

**this**.area = area;

**this**.peri=peri;

}

**public** **double** getLength() {

**return** length;

}

**public** **double** getBreadth() {

**return** breadth;

}

**public** **double** getArea() {

**return** area;

}

**public** **double** getPeri() {

**return** peri;

}

}

**TestRectangle.java**

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

**public** **class** TestRectangle {

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

// **TODO** Auto-generated method stub

Rectangle r1[]=*calculate*();

*display*(r1);

}

**public** **static** Rectangle[] calculate()

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

Rectangle r1[]=**new** Rectangle[5];

**for**(**int** i=0;i<5;i++)

{

System.***out***.println("Enter length:");

**double** l=sc.nextDouble();

**if**(l>20)

{

System.***out***.println("Range between 0 to 20");

System.*exit*(0);

}

System.***out***.println("Enter breadth:");

**double** b=sc.nextDouble();

**if**(b>20)

{

System.***out***.println("Range between 0 to 20");

System.*exit*(0);

}

**double** area=l\*b;

**double** peri=(2\*l)+(2\*b);

r1[i]=**new** Rectangle(l,b,area,peri);

}

**return** r1;

}

**public** **static** **void** display(Rectangle r1[])

{

**for**(**int** i=0;i<5;i++)

{

System.***out***.println("length: "+r1[i].getLength()+"\tbreadth: "+r1[i].getBreadth()+

"\tArea: "+r1[i].getArea()+"\tperimeter: "+r1[i].getPeri());

}

}

}

5.

**Date.java**

**public** **class** Date {

**private** **int** Day;

**private** **int** Month;

**private** **int** year;

**public** **int** getDay() {

**return** Day;

}

**public** Date(**int** day, **int** month, **int** year) {

**super**();

Day = day;

Month = month;

**this**.year = year;

}

**public** **void** setDay(**int** day) {

Day = day;

}

**public** **int** getMonth() {

**return** Month;

}

**public** **void** setMonth(**int** month) {

Month = month;

}

**public** **int** getYear() {

**return** year;

}

**public** **void** setYear(**int** year) {

**this**.year = year;

}

}

**Emp1.java**

**public** **class** Emp1 {

**private** **int** empNumber;

**private** String empName;

**public** Emp1(**int** empNumber, String empName) {

**this**.empNumber = empNumber;

**this**.empName = empName;

}

**public** **int** getEmpNumber() {

**return** empNumber;

}

**public** String getEmpName() {

**return** empName;

}

}

**Employee.java**

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

**public** **class** Employee {

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

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

Emp1 e1[]=**new** Emp1[5];

Date d[]=**new** Date[5];

**for**(**int** i=0;i<5;i++)

{

System.***out***.println("Enter employee number:");

**int** n1=sc.nextInt();

System.***out***.println("Enter employee name:");

String s1=sc.next();

System.***out***.println("Enter joining date:");

**int** n2=sc.nextInt();

**int** n3=sc.nextInt();

**int** n4=sc.nextInt();

e1[i]=**new** Emp1(n1,s1);

**if**(n2<32 && n3<13 && n4<2019)

{

d[i]=**new** Date(n2,n3,n4);

}

**else**

{

System.***out***.println("Not a proper date...");

}

}

*display*(e1,d);

}

**public** **static** **void** display(Emp1 e1[],Date d[])

{

**for**(**int** i=0;i<5;i++)

{

System.***out***.println("Employee Number:"+e1[i].getEmpNumber()+"\nEmployee Name"+e1[i].getEmpName()+""

+ "\nJoining date:"+d[i].getDay()+"-"+d[i].getMonth()+"-"+d[i].getYear());

}

}

}