1. LOAN

**package** assign3;

**import** java.util.Scanner;

**class** Loan{

**private** **double** principal;

**private** **double** rate;

**private** **double** term;

**void** acceptRecord() {

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

System.***out***.println("Enter the principal amount");

principal = sc.nextDouble();

System.***out***.println("Enter the rate");

rate = sc.nextDouble();

System.***out***.println("Enter the term");

term = sc.nextDouble();

}

**double** calculate() {

**double** ase=term\*12;

rate=rate/12;

**double** numerator = rate \* Math.*pow*((1 + rate), ase);

**double** denominator = Math.*pow*((1 + rate), ase) - 1;

**double** result = principal \* (numerator / denominator);

**return** result;

}

**void** printRecord() {

**double** amt = calculate();

System.***out***.println("Amount is "+amt);

}

}

**public** **class** First {

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

Loan l1 = **new** Loan();

l1.acceptRecord();

l1.printRecord();

}

}

1. Investment

**package** assign3;

**import** java.util.Scanner;

**class** Loan{

**private** **double** inv;

**private** **double** rate;

**private** **int** times;

**private** **double** term;

**void** acceptRecord() {

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

System.***out***.println("Enter the inv amount");

inv = sc.nextDouble();

System.***out***.println("Enter the rate");

rate = sc.nextDouble();

System.***out***.println("Enter the times");

times = sc.nextInt();

System.***out***.println("Enter the term");

term = sc.nextDouble();

}

**double** futurevalue() {

**double** value = inv+(Math.*pow*(((1+rate)/times),times\*term));

System.***out***.println("Amount is "+value);

**return** value;

}

**void** totalinterest() {

**double** fut=futurevalue();

**double** value = fut-(inv\*term\*times);

System.***out***.println("Amount is "+value);

}

}

**public** **class** First {

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

Loan l1 = **new** Loan();

l1.acceptRecord();

l1.futurevalue();

l1.totalinterest();

}

}

3. BMI

**package** assign1;

**import** java.util.Scanner;

**class** Employee {

**private** **float** wt;

**private** **float** ht;

**void** acceptRecord() {

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

System.***out***.print("Height in mt : ");

ht = sc.nextFloat();

System.***out***.print("Weight in kgs : ");

wt = sc.nextFloat();

}

**float** calculations() {

**float** bmi = wt/(ht\*ht);

**return** bmi;

}

**void** printRecord() {

**float** bmi=calculations();

System.***out***.println("BMI : " +bmi);

**if**(bmi<18.5)

{

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

}

**else** **if**(bmi>=18.5 && bmi<24.9)

{

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

}

**else** **if**(bmi>=25 && bmi<29.9){

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

}

**else**{

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

}

}

}

**public** **class** Program{

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

Employee emp1 = **new** Employee();

emp1.acceptRecord(); // Message passing

emp1.printRecord(); // Message passing

}

}

4.Discount Price

**package** assign3;

**import** java.util.Scanner;

**class** Retail {

**private** **double** price;

**private** **double** dis;

**void** acceptRecord() {

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

System.***out***.println("Enter the Price");

price = sc.nextDouble();

System.***out***.println("Enter the Discount rate");

dis = sc.nextDouble();

}

**void** calculate() {

**double** d = price\*(dis/100);

System.***out***.println("Discounted Price : "+d);

**double** finap=price-d;

System.***out***.println("Final Price : "+finap);

}

}

**public** **class** Fourth {

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

Retail rt = **new** Retail();

rt.acceptRecord();

rt.calculate();

}

}

5. Total revenue from Vehicles

**package** assign3;

**import** java.util.Scanner;

**class** Toll {

**private** **int** car;

**private** **int** truck;

**private** **int** bike;

**private** **double** rcar;

**private** **double** rtruck;

**private** **double** rbike;

**void** acceptRecord() {

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

System.***out***.println("Enter the No of Cars");

car = sc.nextInt();

System.***out***.println("Enter the No of truck");

truck = sc.nextInt();

System.***out***.println("Enter the No of bike");

bike = sc.nextInt();

System.***out***.println("Enter the rate of Cars");

rcar = sc.nextDouble();

System.***out***.println("Enter the rate of truck");

rtruck = sc.nextDouble();

System.***out***.println("Enter the rate of bike");

rbike = sc.nextDouble();

}

**void** calculate() {

**int** tot=(car+bike+truck);

**double** a= (car\*rcar)+(truck\*rtruck)+(rbike\*bike);

System.***out***.println("Total Vehicle : "+tot);

System.***out***.println("Final Revenue : "+a);

}

}

**public** **class** Fifth {

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

Toll rt = **new** Toll();

rt.acceptRecord();

rt.calculate();

}

}