1.

import java.util.Scanner;

public class DXCCricketTournament {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int roundNeck = 300;

int hooded = 200;

int collared = 250;

int[] cart = new int[3];

int totalCost = 0;

int discount = 0;

int finalAmount = 0;

System.out.println("Enter the number of round-neck T-Shirts: ");

cart[0] = sc.nextInt();

System.out.println("Enter the number of hooded T-Shirts: ");

cart[1] = sc.nextInt();

System.out.println("Enter the number of collared T-Shirts: ");

cart[2] = sc.nextInt();

totalCost = (cart[0] \* roundNeck) + (cart[1] \* hooded) + (cart[2] \* collared);

if (totalCost >= 5 && totalCost <= 10) {

discount = 10;

} else if (totalCost > 10) {

discount = 20;

}

finalAmount = totalCost - (totalCost \* discount / 100);

System.out.println("Total cost: " + totalCost);

System.out.println("Discount: " + discount + "%");

System.out.println("Final amount: " + finalAmount);

}

}

2.

public class Point {

double x;

double y;

double distance;

public Point() {}

public Point(double x, double y) {

this.x = x;

this.y = y;

}

public double distance() {

return Math.sqrt(x \* x + y \* y);

}

public double distance(Point point) {

return Math.sqrt((point.x - x) \* (point.x - x) + (point.y - y) \* (point.y - y));

}

public void setX(double x) {

this.x = x;

}

public void setY(double y) {

this.y = y;

}

}

public class Tester1 {

public static void main(String[] args) {

Point p1 = new Point();

p1.setX(1.0);

p1.setY(1.0);

System.out.println("Distance of p1 from origin: " + p1.distance());

Point p2 = new Point();

p2.setX(4.0);

p2.setY(5.0);

System.out.println("Distance of p2 from origin: " + p2.distance());

System.out.println("Distance between p1 and p2: " + p1.distance(p2));

}

}

3.

package Metro\_Bank;

class Loan {

int accountNumber;

double accountBalance;

double salary;

String loneType;

double loanAmountAxpected;

double noOfEmiExpected;

public Loan(int accountNumber, double accountBalance, double salary, String loneType, double loanAmountAxpected,double noOfEmiExpected) {

this.accountNumber = accountNumber;

this.accountBalance = accountBalance;

this.salary = salary;

this.loneType = loneType;

this.loanAmountAxpected = loanAmountAxpected;

this.noOfEmiExpected = noOfEmiExpected;

}

public int getAccountNumber() {

return accountNumber;

}

public void setAccountNumber(int accountNumber) {

this.accountNumber = accountNumber;

}

public double getAccountBalance() {

return accountBalance;

}

public void setAccountBalance(double accountBalance) {

this.accountBalance = accountBalance;

}

public double getSalary() {

return salary;

}

public void setSalary(double salary) {

this.salary = salary;

}

public String getLoneType() {

return loneType;

}

public void setLoneType(String loneType) {

this.loneType = loneType;

}

public double getLoanAmountAxpected() {

return loanAmountAxpected;

}

public void setLoanAmountAxpected(double loanAmountAxpected) {

this.loanAmountAxpected = loanAmountAxpected;

}

public double getNoOfEmiExpected() {

return noOfEmiExpected;

}

public void setNoOfEmiExpected(double noOfEmiExpected) {

this.noOfEmiExpected = noOfEmiExpected;

}

public void Conditions(){

if(accountNumber>999&&accountNumber<2000)

{

if (accountBalance >= 1000) {

if (salary > 25000 && loneType == "Car") {

if (noOfEmiExpected <= 36 && loanAmountAxpected <= 500000) {

System.out.println("Account number:" + accountNumber);

System.out.println("Eligible loan amount:" + 5000000);

System.out.println("Eligible EMIs :" + 36);

} else {

System.out.println("The customer is not eligible for the loan");

}

}

} else if (accountBalance >= 1000) {

if (salary > 50000 && loneType == "House") {

if (noOfEmiExpected <= 60 && loanAmountAxpected <= 6000000) {

System.out.println("Account number:" + accountNumber);

System.out.println("The customer can avail the amount of Rs." + loanAmountAxpected);

System.out.println("Eligible EMIs :" + 60);

System.out.println("Requested loan amount:" + 6000000);

System.out.println("Requested EMI's:" + noOfEmiExpected);

} else {

System.out.println("The customer is not eligible for the loan");

}

}

} else if (accountBalance >= 1000) {

if (salary > 75000 && loneType == "Business") {

if (noOfEmiExpected <= 80 && loanAmountAxpected <= 7500000) {

System.out.println("Account number:" + accountNumber);

System.out.println("Eligible loan amount:" + 6000000);

System.out.println("Eligible EMIs :" + 60);

} else {

System.out.println("The customer is not eligible for the loan");

}

}

}

}else

{

System.out.println("Invalid account number");

}

}

}

public class EMI{

public static void main(String[] args) {

Loan Customer=new Loan(1001,40000,250000,"Car",300000,30);

Customer.Conditions();

}

}