1.You owe the credit card company an amount of M. The company charges you an interest of 1.5% per month on the unpaid balance. You have decided close the card and pay off the debt by making a monthly payment of N rupee a month.

Write a program that asks for the monthly payment, the program writes out the balance and total payments so far for every succeeding month until the balance is zero or less.

Sample Input :

Enter the monthly payment: 100

Sample Output:

Month: 1 balance: 915.0 total payments: 100.0

Month: 2 balance: 828.725 total payments: 200.0

Month: 3 balance: 741.155875 total payments: 300.0

2.Create a class called Accounts which has data members like ACCOUNT no, Customer name, Account type, Transaction type (d/w), amount, balance

D->Deposit

W->Withdrawal

If transaction type is deposit call the credit(int amount) and update balance in this method.

If transaction type is withdraw call debit(int amt) and update balance

Pass the other information like Acount no,name,acc type through accept()

call the show data method to display the values.

3. Create a class called student which has data members like rollno, name, class, SEM, branch,

int [] marks=new int marks [5](marks of 5 subjects)

Write a method called displayresult, which should calculate the average marks

If marks of any one subject is less than 35 print result as failed

If marks of all subject is >35 but average is < 50 then also print result as failed

If avg > 50 then print result as passed.

Pass the details of student like rollno, name, class, SEM, branch in constructor

Write a Display Data method to display all values.

5.For an Online Bookstore create a class to store book details and display the book details with fields isbn,bookname,booktitle,bookauthor,quantityofbooks,bookprice.calculate and display the bill amount [Note: Use Suitable Methods]

6.Create a class called shapes Overload the Area method that has to calculate the area of rectangle, triangle, circle, and square by passing the relevant parameters.

To display name and balance.

7. Create a class called Student with the following details:

RollNo

StudName

MarksInEng

MarksInMaths

MarksInScience

Read all the student details using constructor

Display the total marks and Percentage of the student.