Q1..

Design a class named Account that contains:

* A private int data field named id for the account (default 0).
* A private double data field named balance for the account (default 0).
* A private double data field named annualInterestRate that stores the current interest rate (default 0).
* Assume all accounts have the same interest rate.
* A private Date data field named dateCreated that stores the date when the account was created.....Date method useful.
* A no-arg constructor that creates a default account.
* A constructor that creates an account with the specified id and initial balance.
* The accessor and mutator methods for id, balance, and annualInterestRate.
* The accessor method for dateCreated.
* A method named getMonthlyInterestRate() that returns the monthly interest rate.
* A method named getMonthlyInterest() that returns the monthly interest.
* A method named withdraw that withdraws a specified amount from the account.
* A method named deposit that deposits a specified amount to the account.

Hints:

* The method getMonthlyInterest() is to return monthly interest, not the interest rate.
* Monthly interest is balance \* monthlyInterestRate and the monthlyInterestRate is annualInterestRate / 12.
* Note that annualInterestRate is a percentage, e.g., like 4.5%. You need to divide it by 100 to get real number to use.
* Write a test program that creates an Account object with an account ID of 1122, a balance of Rs20,000, and an annual interest rate of 4.5%. Use the withdraw method to withdraw Rs2,500, use the deposit method to deposit Rs3,000, and finally print the balance, the monthly interest, and the date when this account was created.
* For the test program print the "current balance only" after each transaction (creation, withdrawal & deposit) in addition to the final print specified above.

Q2.

* Design a class Rectangle having length and breadth as attributes.
* Use constructors to initialize the attributes.
* Use accessor and mutator methods for individual fields
* Calculate the area and perimeter of rectangle by using get\_area() and get\_peremeter() method.
* Display the area of 10 rectangles in sorted order.