236-Labl (Review of 162) ODESIGN a class named Account that contains:
-private int data field named id for the account (default a) - private double data field named balance for the account (default 4) - private double field named annual InterestRate that stores the current interest rate (default 4) Assume all accounts have same interest rate - private Date field named date Created that stores the date when the account was created. C default constructor that creates a default account - constructor that creates an account with the Specified id & initial balance. -Accessor & mutator methods for id, balance, & annual InterestRate -Accessor method for date Created - method named get Monthly Interest Rate () that returns the monthly interest rate - method named getMonthly Interest () that return: the monthly interest -method named withdraw that withdraws a specified amount from the account

method named deposit that deposits a specified camount to the account

-Write a test demo program that creates an Account object with an ID of 1122, a balance of \$20,000.00, & an annual interest rate of 4.5%.

-Use the withdraw method to withdraw \$2,500,000. & use the deposit method to deposit \$3,000.00, & print the balance, the monthly interest, & the date when this account was created.

Diwrite a recursive method that parses a hex number as a string into a decimal integer. The method header is:

public static int hexadec (String hexstring)

Write a program that prompts the user to enter a nex string & displays its decimal equivalent. (Recall & A16 = 1010; B16=11,0...a=4910)

Use the following nex values to convert:

BAD, BAC98, BabA73

(3) Rewrite #2 using a parse Hex (String hexstr) & convertHexTo Dec (cher ch). - Have the convert HexTo Dec method throw a Number Format Exceptron if the string is not a Inside main(): Call parse Hex ("45"); Parse Hex ("FAA"): Parse Hex ["TIp"); parse Hex ("ABC"); parse Hex ("14 A");