Project Two

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CS 210

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Project Three Pseudocode

START

DECLARE variables openingAmount, deposit, interest, and years, command

SET boolean activeInput to true

SET boolean validInput to true

INSTANTIATE class objects

WHILE activeInput is true

DISPAY menu

TRY input

IF input fails

THROW input

CASE 1 PROMPT for openingAmount, deposit, interest, and years

SET accoutnBalance = openingAmount

IF deposit > 100000000000 OR years > 99 OR interest > 9999 OR OpeningAmount > 10000000000

validInput = false

EXIT program

ELSE

validInput = true

FUNCTION NoDeposits(accountBalance, deposit, interest, years)

SET MONTS = 12

FOR each year:

CALCULATE YearEndInterest = AccountBalance \* interest

CALCULATE accountBalance += YearEndInterest

DISPLAY resulting accountBalance and yearEndInterest

FUNCTION withDeposits(accountBalance, deposit, interest, years)

SET MONTS = 12

FOR each year:

SET YearEndInterest to zero

FOR each month:

CALCULATE principle = accountBalance + deposit

CALCULATE interestEarned = principle \* (interest / MONTHS)

CALCULATE accountBalance = principle + interestEarned

CALCULATE yearEndInterest += interestEarned

DISPLAY resulting accountBalance and yearEndInterest

CASE 2

DISPLAY “Now Exiting the Application”

SET activeInput = false

RETURN 0

RETURN 0

EXIT