Pseudocode for Main Method

1. Start

2. Declare method prototype for line(), calLoan, calInterestPayment, calPrincipal, calBalance , calMonthlyPayment and calTotalLoan.

3. Declare variables for Year, Index, CarPrice, DownPayment, Interest, Loan, Principal, InterestPayment, Balance, MonthlyPayment, TotalPrincipal, TotalInterestPayment, TotalBalance and TotalLoan.

4. Initialize Loan, Principal, InterestPayment, Balance, MonthlyPayment, TotalPrincipal, TotalInterestPayment, TotalBalance and TotalLoan to zero .

5. Input the CarPrice, DownPayment, LoanPeriod and Interest.

6. IF DownPayment is less than zero OR CarPrice is less than thirty thousand OR Interest is less than three OR Interest is more than seven OR Year is less than five OR Year is more than nine. THEN

6.1 Display “Error, please check your input!!! ”.

ELSE

6.2 Initialize Index to one

While Index is less than or equal to Year

Call method calLoan, calInterestPayment, calPrincipal and calBalance

Add one to Index counter

6.3 Call method calMonthlyPayment

Display “Monthly Repayment”

Display MonthlyPayment

6.4 Call method line()

Display “YEARS PRINCIPAL INTEREST BALANCE”.

Call method line()

6.5 Initialize Index to one

While Index is less than or equal to Year

TotalPrincipal= TotalPrincipal + Principal

TotalInterestPayment= InterestPayment + InterestPayment

Call method TotalLoan

TotalBalance= TotalLoan-TotalPrincipal

Display Index, TotalPrincipal, TotalInterestPayment and TotalBalance

6.6 Call line()

END IF

7. End

Pseuducode for calLoan Method

1. Start

2. Declare Loan

3. Loan = price – downpayment

4. Return Loan

5. End

Pseuducode for calInterestPayment Method

1. Start

2. Declare InterestPayment

3. InterestPayment = loan\*interest/100

4. Return InterestPayment

5. End

Pseuducode for calPrincipal Method

1. Start

2. Declare Principal

3. Principal = (loan/year)+interestpayment

4. Return Principal

5. End

Pseuducode for calBalance Method

1. Start

2. Declare Balance

3. Balance = (loan+(interestpayment\*year)) – principal

4. Return Balance

5. End

Pseuducode for calMonthlyPayment Method

1. Start

2. Declare MonthlyPayment

3. MonthlyPayment = (loan/year/12) – (interestpayment/12)

4. Return MonthlyPayment

5. End