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Class: LC95

PSEUDOCODE

//PROGRAM MICH BANK

```
Struct transaction(
        String name
        Integer day
       Integer month
        Integer year
) as array trans
//Function untuk menghitung bunga
Function interestTable(int save,int y)
  If(save <1000000) then
       If(y \ge 12 \text{ AND } y \le 36) then
          return 0.01
       Else if(y \ge 36 AND y < 60) then
          return 0.012
        Else if(y \ge 60 \& y < 120) then
          return 0.015
        Enf if
  Else if (save\geq=1000000) then
        If(y \ge 12\&\&y < 36) then
          return 0.012
        Else if(y \ge 36 \& y < 60) then
          return 0.015
        Else if(y \ge 60 \& y < 120) then
          return 0.017
       End if
  End if
End function
```

Module main()	
Time_t now	
Struct tm *date	
Time(&now)	
Set date = localtime(&now)	
Declare Integer choose	
Declare character again	
While again not n{	
Display "\$\$\$\$"	
Display "\$\$\$\$"	
Display "\$\$ \$\$"	
Display "\$\$ *** *** *** *** ** ** ***** *** ***	
Display "\$\$ **** *** *** ** ** ** ** ** ** **** *** ** ** ** \$\$"	
Display "\$\$ ** *** * * * * ***** ***** ** ** ** *	
Display "\$\$ **	*
Display "\$\$ **	*
Display "\$\$ **	
Display "\$\$ \$\$")	
Display "\$\$\$\$"	-
Display "\$\$\$\$"	-
Display " WELCOME TO MICH BANK!")	
Labelinvalid:	
Display "SELECT THE FEATURE YOU WANT ACCORDING TO THE NUMBER:1. Deposits (Interest calculations per year (Annual) of 5%%) 2. Planned Savings 3. Planned Savings Transactions Check 4. Exit"	
Display "Choice: "	

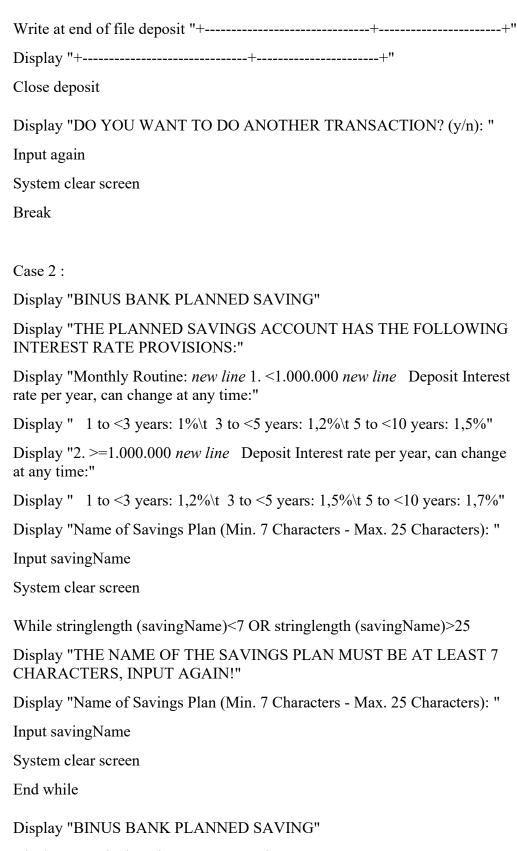
```
Input choose
System clear screen
Declare Real interestMonth
Declare long long integer i,saving,month,autodebetDay,sum,summ,check
Set sum=0,summ=0,check=0
Declare string name, savingName, savingnamee
Select choose
      Case 1:
      Display "BINUS BANK DEPOSITS"
      Display "Name: "
      Input name
      Display "Saving: Rp. "
      Input saving
      Display "Term of deposit (month): "
      Input month
      System clear screen
      While saving<1000000
      Display "BINUS BANK DEPOSITS"
      Display "MINIMUM DEPOSIT RP. 1.000.000, INPUT AGAIN!"
      Display "Name: "
      Input name
      Display "Saving: Rp. "
      Input saving
      Display "Term of deposit (month): "
      Input month
      System clear screen
      End while
      Display "TRANSACTION SUCCESSFUL!"
```

Display "DEPOSITO REPORT"

Declare OutputFile deposit

```
Open deposit "Deposit Report.txt" //Append
Write at end of file deposit "Date of Creation: ", date->tm mday, date-
>tm mon+1, date->tm year + 1900,name
Write at end of file deposit "
                             MONTH
                                          AMOUNT
Write at end of file deposit " MONTH AMOUNT
Write at end of file deposit "+------+"
For i:=1 to month {
      Set interestMonth= saving*(0.05/12)*0.8;
      Set saving+=interestMonth;
      If i mod10==1 AND i not 11 then
      Write at end of file deposit "|" i "st month deposit | Rp. " saving ",- |"
     Display "|" i "st month deposit | Rp. " saving ",- |"
     Else if i mod 10==2 AND i not 12 then
      Write at end of file deposit "|" i "nd month deposit | Rp. " saving ",- |"
     Display "|" i "nd month deposit | Rp. " saving ",- |"
      Else if i mod 10==3 AND i not 13 then
      Write at end of file deposit "|" i "rd month deposit | Rp. " saving ",- |"
     Display "|" i "rd month deposit | Rp. " saving ",- |"
     Else if i mod 12==0 then
     Write at end of file deposit "|" i "th month (" i/12 "year) deposit\t| Rp. "
     saving ",- |"
     Display "|" i "th month (" i/12 "year) deposit\t| Rp. " saving ",- |"
      Else
      Write at end of file deposit "|" i "th month deposit | Rp. " saving ",- |"
      Display "|" i "th month deposit | Rp. " saving ",- |"
     End if
```

End for



Display "Nominal Savings Every Month: Rp. "

Input saving

System clear screen

Display "BINUS BANK PLANNED SAVING" Display "Saving Period (Minimum 12 months): " Input month System clear screen While month<12 OR month >=120 Display "THE SAVING PERIOD MUST BE AT LEAST 12 MONTHS, INPUT AGAIN!" Display "Saving Period (Minimum 12 months): " Input month System clear screen End while Display "BINUS BANK PLANNED SAVING" Display "Set Autodebit Date (1-28): " Input autodebetDay System clear screen While autodebetDay<1 OR autodebetDay>28 Display "ERROR, ENTER THE CORRECT DATE!" Display "Set Autodebit Date (1-28): " Input autodebetDay System clear screen End while Declare OutputFile plannedsavings Open plannedsavings "Planned Saving Report.txt" //Append Write at end of file plannedsavings "Date of Creation: ",date->tm mday, date->tm mon+1, date->tm year + 1900, savingName Write at end of file plannedsavings " MONTH AMOUNT |" ----+" Display "TRANSACTION SUCCESSFUL!" Display "PLANNED SAVING REPORT"

```
For i:=1 to month
      Set sum=saving
      Set sum=saving+saving*interestTable(sum,month)
      Set summ+=sum
      If i mod 10==1 AND i not 11 then
       Write at end of file plannedsavings "|" i "st month savings amount | Rp.
      " sum ",- |"
             If i==1 then {
             Display "Amount of savings earned per month: Rp. " sum ",-"
             End if
       }
      Else if i mod 10==2 AND i not 12 then
      Write at end of file plannedsavings "|" i "nd month savings amount |
      Rp. " sum ",- |"
      Else if i mod 10==3 AND I not 13 then
      Write at end of file plannedsavings "|" i "rd month savings amount |
      Rp. " sum ",- |"
      Else if i mod 12==0 then
      Write at end of file plannedsavings "|" i "th month (" i/12 "year)
      savings amount\t| Rp. " sum ",- |"
      Else
      Write at end of file plannedsavings "|" i "th month savings amount |
      Rp. " sum ",- |"
End for
Display "The amount of savings obtained according to the period of saving:
Rp. " sum ",-"
Close plannedsavings
Declare OutputFile transaction
```

Open transaction "Transaction Report.txt" //Append If date->tm mday == autodebetDay then Write at end of file transaction savingName, date->tm mday, date->tm mon + 1, date->tm year + 1900 End if Close transaction Display "DO YOU WANT TO DO ANOTHER TRANSACTION? (y/n): " Input again System clear screen Break Case 3: Display "PLANNED SAVINGS TRANSACTIONS CHECK" Display "Enter the Saving Name: " Input savingnamee System clear screen Open transaction "Transaction Report.txt" //Read Set i=0Display "TRANSACTIONS:" While not feof(transaction) Read transaction trans[i].name,&trans[i].day,&trans[i].month,&trans[i].year If(stringcompare(trans[i].name,savingnamee)==0 then Set check=1 Display "Saving Name: " trans[i].name ", auto debit has been done on " trans[i].day,trans[i].month,trans[i].year End if Set i++

End while

If check==0 then

Display "TRANSACTIONS BASED ON THE NAME OF THE PLANNED SAVINGS ARE NOT AVAILABLE!"

Display "\nDO YOU WANT TO DO ANOTHER TRANSACTION? (y/n): "

Input again
System clear screen
Break

Case 4:
Go to labelend
//End Module

Default:
Display "INVALID CHOICE!"
Go to labelinvalid

End select

End while
Labelend:

End module

Fflush stdin

Display "Exit..."