**Module housing\_loan()**  
 Set cont\_exit = ‘2’  
 clrscr  
 REPEAT  
 Display “ \*\*\*Housing Loan Calculator\*\*\* ”  
 Prompt and Get cost, loan\_prcnt, tenure, intrst\_rate  
  
 cost = call module dchecker(100000000,1,0,1)  
 loan\_prcnt = call module fchecker(100.00,1.0,0,2)  
 tenure = call module ichecker(35,20,0)  
 intrst\_rate = call module fchecker(10,2,0,2)  
   
 loan\_prcnt \*= 0.01  
 tenure \*= 12  
 loan\_amt = loan\_prcnt \* cost  
 monthly\_intrst = ((intrst\_rate) / 100) / 12  
 pow\_func = pow((1 + monthly\_intrst), tenure)  
 installment = loan\_amt \* (monthly\_intrst / (1 - (1 / pow\_func)))  
 Display installment  
   
 REPEAT  
 Prompt and Get cont\_exit

IF Call module flush() == 1 THEN

Set cont\_exit = ‘4’

ENDIF

IF cont\_exit == ‘3’ THEN

Call module exit(0)

ELSE

IF cont\_exit == ‘2’ THEN

clrscr

return void

ELSE

IF cont\_exit != ‘1’ && cont\_exit != ‘0’

Display "Invalid option, please try again."

ENDIF

ENDIF

ENDIF

UNTIL cont\_exit != ‘1’ && cont\_exit != ‘0’

clrscr

IF cont\_exit == ‘1’ THEN  
 Display “ \*\*\*Housing Loan Calculator\*\*\* ”  
 Prompt and Get year, month  
 year = call module ichecker(2200,1918,0,1)  
 month = call module ichecker(12,1,0,1)  
 Set no = 0, balance = loan\_amt, intrst\_sum = 0  
 clrscr  
 Display”Monthy Installment Schedule”  
 Display“---------------------------------------”  
 Display” Payable Interest Interest Principal Balance”  
 Display”No. Due (RM) Accrued (RM) Sum (RM) (RM) Due (RM)”  
 Display”----------------------------------------------------------------------------------------“  
 DOWHILE no != tenure  
 no++  
 intrst\_accrued = monthly\_intrst \* balance  
 princpl = installment - intrst\_accrued  
 intrst\_sum += intrst\_accrued  
 balance -= princpl

IF month > 12 THEN  
 year++  
 month = 1

ENDIF  
 IF balance <= 0 THEN  
 Set balance = 0  
 ENDIF  
 Display no, month, year, installment, intrst\_accrued, intrst\_sum, princpl, balance

month++  
 ENDDO

REPEAT

Display “Choose any one option to continue? (0 - Calculate another housing loan; 1 - Return to main menu; 2 - Exit the program) : ”  
 Prompt and Get cont\_exit

IF Call Module flush() == 1

cont\_exit = ‘3’

ENDIF

IF cont\_exit == ‘1’ THEN  
 clrscr  
ELSE

IF cont\_exit == ‘0’ THEN  
 clrscr  
 ELSE

IF cont\_exit == ‘2’ THEN  
 Call module exit(0)  
 ELSE  
 Display “Invalid option, please try again.”  
 ENDIF  
 ENDIF  
ENDIF

UNTIL (cont\_exit = ‘0’ && cont\_exit = ‘1’)

ENDIF

UNTIL (cont\_exit == ‘0’)

End