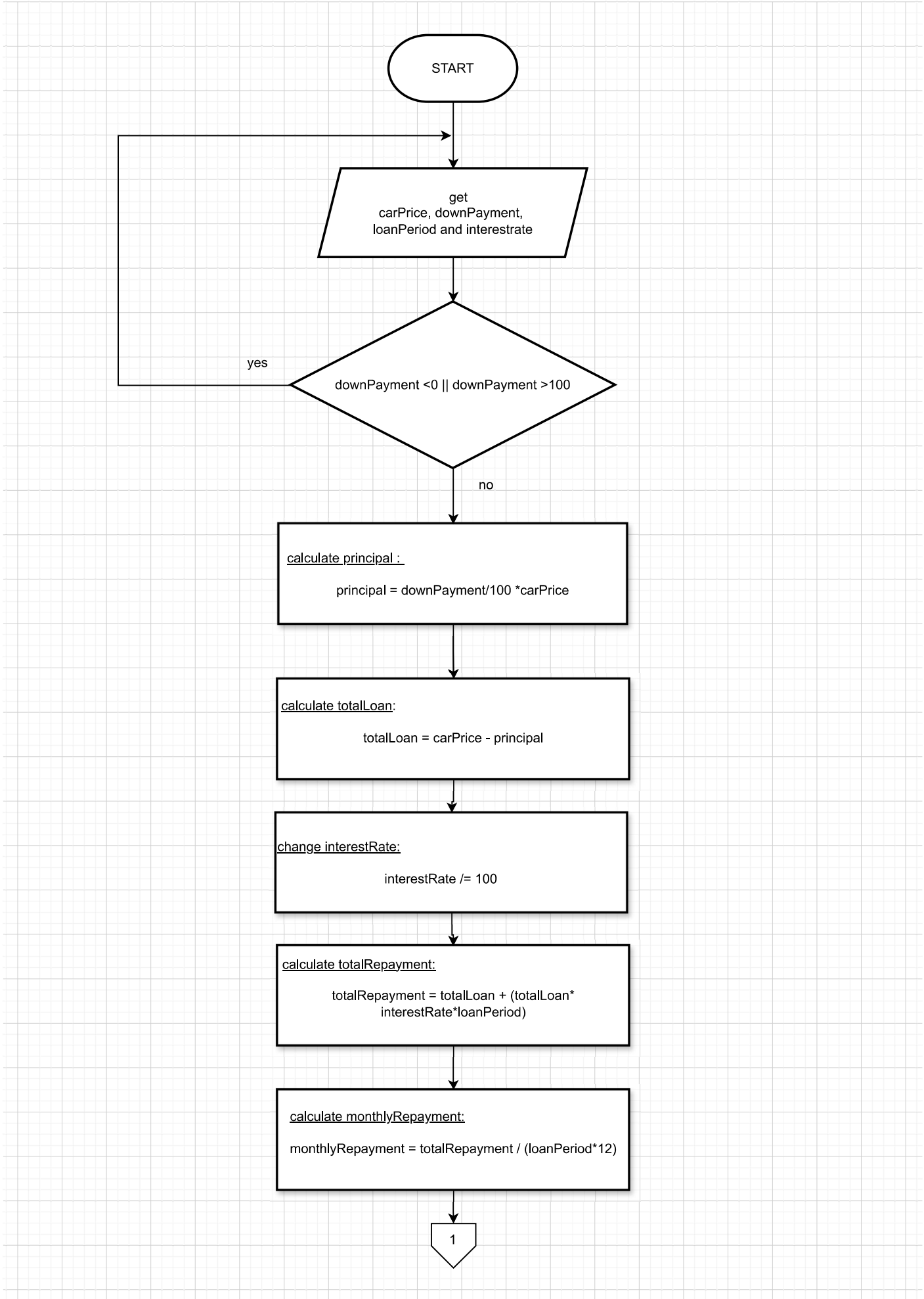
UTM

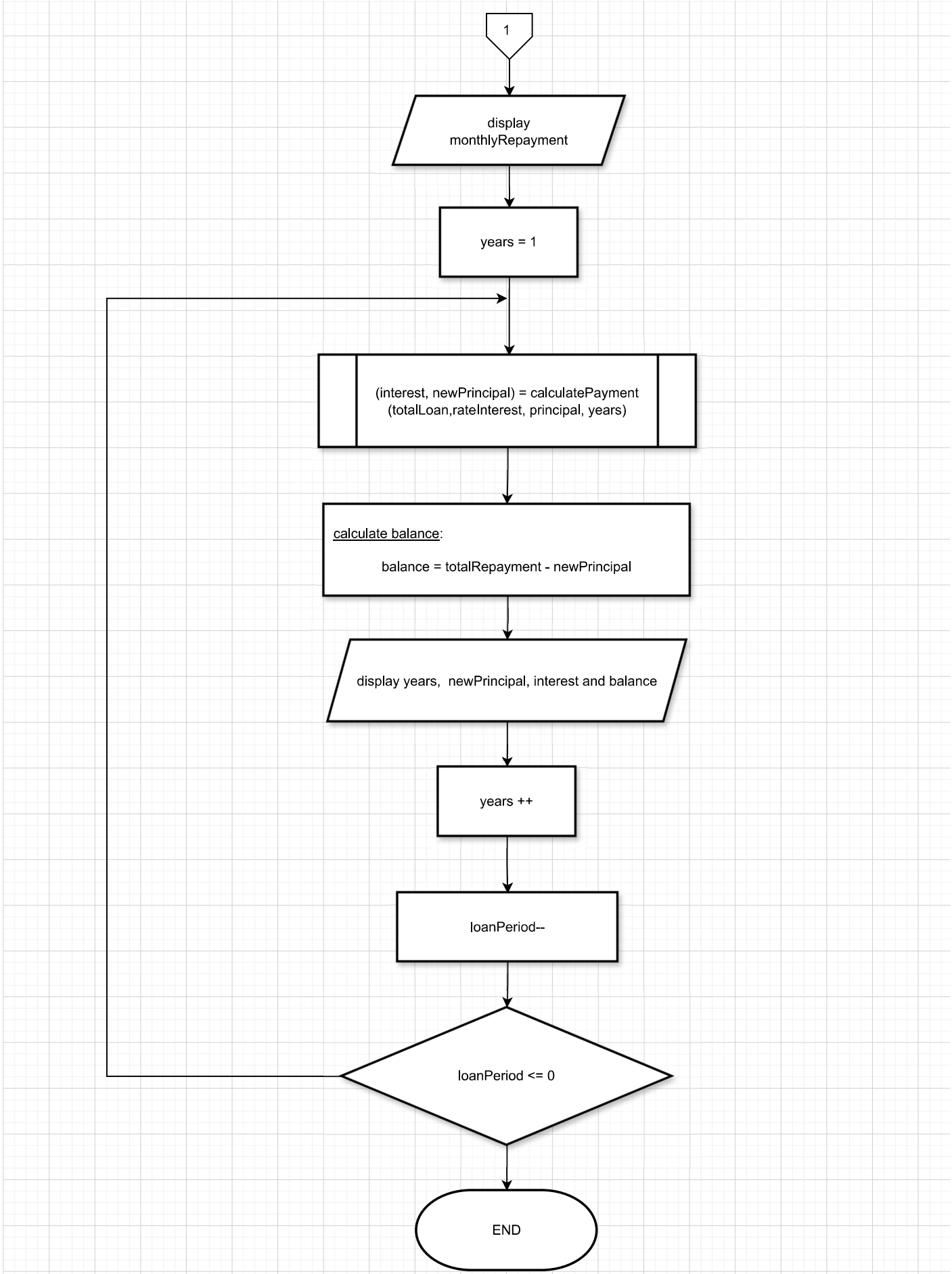
UNIVERSITI TEKNOLOGI MALAYSIA

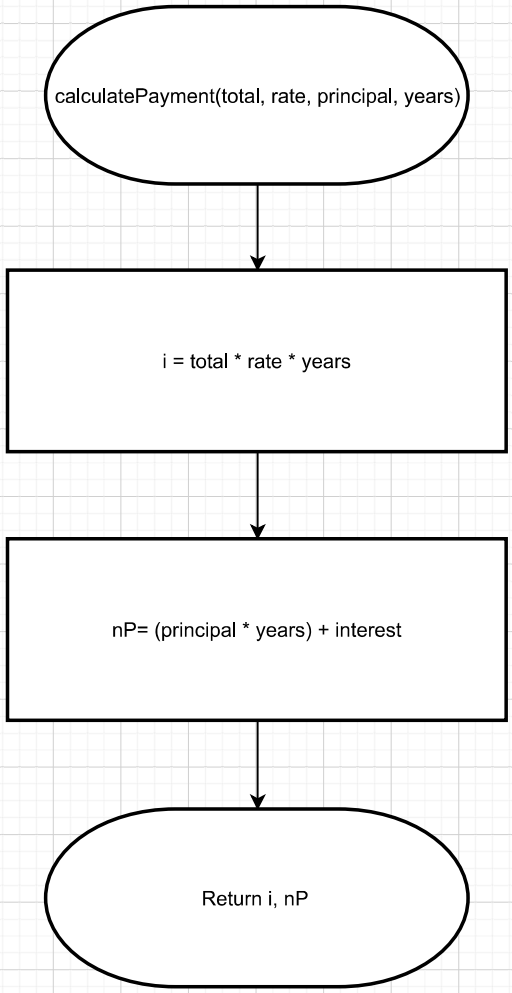
SECJ1013-02
PROGRAMMING TECHNIQUE I
ASSIGNMENT 1
03 NOVEMBER 2025
SET NUMBER 02

NAME	MATRIC NUMBER
SHASYA SHAFIEQAH BINTI SHAHARUDDIN	A25CS0350
FARAH AISYA BINTI JAAFAR	A25CS0218

DR. MUHAMMAD LUQMAN BIN MOHD SHAFIE


START
get
carPrice, downPayment,
loanPeriod and interestrate
yes
downPayment <0 || downPayment >100
no
calculate principal :
principal = downPayment/100 *carPrice
calculate totalLoan:
totalLoan = carPrice - principal
change interestRate:
interestRate /= 100
calculate totalRepayment:
totalRepayment = totalLoan + (totalLoan*
interestRate*loanPeriod)
calculate monthlyRepayment:
monthlyRepayment = totalRepayment / (loanPeriod*12)
1


1
display
monthlyRepayment
years = 1
(interest, newPrincipal) = calculatePayment
(totalLoan,rateInterest, principal, years)
calculate balance:
balance = totalRepayment - newPrincipal
display years, newPrincipal, interest and balance
years ++
loanPeriod--
loanPeriod <= 0
END


calculatePayment(total, rate, principal, years)
i = total * rate * years
nP= (principal * years) + interest
Return i, nP