If you get the correct output for the practice problem (see below) you should have some confidence that your template is set up with the correct cell formulas. Then if you enter the correct figures in input value cells B4 to B20 (read the assignment!), your completed Excel[®] output should be ready to submit.

Α	B	C	D	E	F	G	H
FIL 260 Spreadsheet Homework Problem 3: Real Est	ate Investment (ba	sed on practice i	nput values)				
Student Name							
Tatal Branata Brushana Brian	\$6 450 000		Onun ede Traviter Inc.	entre ent (Derechanse Drive Lane)			\$2.550.00
Total Property Purchase Price	\$6,450,000		Owner's Equity inve	estment (Purchase Price - Loan)			\$2,550,00
Land Value	\$1,440,000						
Depreciable Life in Years (Rental Residential)	27.5		Depreciable Basis (I	Purchase Price - Land Value)			\$5,010,00
Amount Borrowed on Loan	\$3,900,000		Depreciation in Vr. 1	2, 3, or 4 ((Purch Price - Land)/L	ife)		\$182,18
			-				
Loan Amortization Period in Years	25		Depreciation 11.1 o	r 5 (11.5/12 of Yr. 2 - 4 value)			\$174,59
Annual Stated (APR) Interest Rate on Loan	7.50%						
Initial Monthly Rent per Unit	\$1,380		Three years of depr	eciation, years 2 - 4		\$546,545	
Number of Units	44		Two years of depres			\$349,182	
					2.500		
Expected Annual Rent Percentage Increase	2.80%		-	claimed (recaptured under Sec. 1		\$895,727	
Expected Annual Vacancy/Uncollectible Percentage	4.60%		Remaining book val	ue at end of yr 5 (Purch Pr - Toi	t Depr):		\$5,554,27
Operating Expense Percentage	35.00%						
Expected Resale Price			Total Association	(6730 64
-	\$8,100,000		Initial Annual Kent	(monthly rent x 12 x # units)			\$728,64
Expected Selling Expense Percentage	6.00%						
Investor's Required Return on Equity	9.80%		Loan Amortization I	Period in Months (# years x 12)			300
Investor's Ordinary Income Tax Rate	34.00%			ate on Loan (annual rate ÷ 12)			0.00625
-							
Ordinary Capital Gain Tax Rate	15.00%		Monthly Loan Payn	nent (from loan payment formul	a)		\$28,821
Section 1250 Depreciation Recpature Tax Rate	25.00%		Annual Loan Payme	ent Total (monthly payment x 12	2)		\$345,84
					·		
Not Propert Value (as commented below)	\$204.020	Investment !-	accontable since NDX	lia \$0 on groater			
Net Present Value (as computed below)	\$204,939		acceptable since NPV	-			
Internal Rate of Return (as computed below)	11.65%	Investment is	acceptable since IRR	is equal to or greater than req	uired annual re	turn	
Loan to Value Ratio (L/V)	0.60		Initial Year's Debt	Coverage Ratio (DCR)	1.31		
LOAN AMORTIZATION INFORMATION			Initial	Ending	Year's		
		T		-		Direct 4	Test
		Ending	Principal	Principal	Total	Principal	Interes
	Year	Month	Owed	Owed	Payment []	Repaid	Paid
	0	0		\$3,900,000			
	1	12	\$3,900,000	\$3,844,780	\$345,848	\$55,220	\$290,62
	2	24	\$3,844,780	\$3,785,272	\$345,848	\$59,507	\$286,34
	3	36	\$3,785,272	\$3,721,145	\$345,848	\$64,127	\$281,72
	4	48	\$3,721,145	\$3,652,040	\$345,848	\$69,105	\$276,74
	5	60	\$3,652,040	\$3,577,569	\$345,848	\$74,470	\$271,37
CAPITAL GAIN TAX			AFTER-TAX EQUI	TY REVERSION			
Gross Selling Price	\$8,100,000		Gross Selling Price			\$8,100,000	
Minus Selling Expense	\$486,000	Minus Selling Expense			\$486,000		
Equals Net Selling Price			Equals Net Selling Price		\$7,614,000		
	\$7,614,000						
Minus Remaining Book Value	\$5,554,273		Minus Loan Payoff	(see above)		\$3,577,569	
Equals Capital Gain	\$2,059,727		Equals Before-Tax E	Equity Reversion		\$4,036,431	
Minus Section 1250 Depreciation Recapture	\$895,727		Minus Capital Gain Tax			\$398,532	
			-				
Ordinary Capital Gain	\$1,164,000		Equals After-Tax Eq	uity Reversion		\$3,637,899	
Tax on Section 1250 Depreciation Recapture	\$223,932						
Tax on Ordinary Capital Gain	\$174,600						
Total Tax on Capital Gain	\$398,532						
CASH FLOW COMPUTATION	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	
Potential Gross Income (PGI)		\$728,640	\$749,042	\$770,015	\$791,576	\$813,740	
Minus Losses from Vacancy and Uncollectibles		<u>\$33,517</u>	<u>\$34,456</u>	<u>\$35,421</u>	<u>\$36,412</u>	<u>\$37,432</u>	
Equals Effective Gross Income (EGI)		\$695,123	\$714,586	\$734,594	\$755,163	\$776,308	
Minus Operating Expenses		\$243,293	\$250,105	\$257,108	\$264,307	\$271,708	
Equals Net Operating Income (NOI)		\$451,830	\$464,481	\$477,486	\$490,856	\$504,600	
Minus Debt Service (see above)		\$345,848	\$345,848	\$345,848	\$345,848	\$345,848	
Equals Before Tax Cash Flow to Equity (BTCF)		\$105,982	\$118,633	\$131,638	\$145,008	\$158,752	
						-	
Minus Income Tax (see below)		<u>-\$4,552</u>	<u>-\$1,374</u>	<u>\$4,618</u>	<u>\$10,857</u>	<u>\$19,935</u>	
Equals After Tax Cash Flow to Equity (ATCF)		\$110,534	\$120,007	\$127,020	\$134,151	\$138,817	
Amount (Paid)/Received from Transaction	(\$2,550,000)					\$3,637,899	
INCOME TAX COMPUTATION							
		A 101	A 101 101	A177 107	6100 FT -	6704 F22	
Net Operating Income		\$451,830	\$464,481	\$477,486	\$490,856	\$504,600	
Minus Interest Expense (see above)		\$290,627	\$286,341	\$281,721	\$276,742	\$271,378	
Minus Depreciation		\$174,591	\$182,182	\$182,182	\$182,182	\$174,591	
Equals Taxable Income		-\$13,389	-\$4,041	\$13,584	\$31,932	\$58,631	
Income Tax @ Ordinary Income Tax Rate%		-\$4,552	-\$1,374	\$4,618	\$10,857	\$19,935	
				-			
NEW COMPLETATION	Vera	V 4	V 2	Vac 2	Vacat	V	
NPV COMPUTATION	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	
	(\$2,550,000)	\$110,534	\$120,007	\$127,020	\$134,151	\$138,817	
After Tax Cash Flow to Equity (ATCF)						\$3,637,899	IRR:
After Tax Equity Reversion (ATER)	(\$2.550.000)	\$110.524	\$100.007	\$137,030	\$124.151		
After Tax Equity Reversion (ATER) Total of ATCF + ATER	(\$2,550,000)	\$110,534	\$120,007	\$127,020	\$134,151	\$3,776,716	11.65%
After Tax Equity Reversion (ATER)	(\$2,550,000) 1.000000	\$110,534 0.910747	\$120,007 0.829460	\$127,020 0.755428	\$134,151 0.688003		