
```
name: <unnamed>
log: /Users/cristiangudino/Desktop/MacroeconomicsII/Tarea2/Data/Consum
> o.smcl
log type: smcl
opened on: 22 Mar 2022, 16:35:50
```

```
1 .
2 . /*
> A) Obtener datos del PIB, Consumo, Gasto de Gobierno, Inversión y Exportacio
> nes Netas de manera trimestral de 1980 a 2019.
>
> La base contiene los datos trimestrales para el consumo privado, gasto guber
> namental, inversión, exportaciones e importaciones, así como el producto in
> terno bruto de los años 1993 a 2019, puesto que la página del INEGI no cuent
> a, en todos los componentes, los datos de 1980.
>
> */
3 .
4 . import delimited "cuentas_nacionales.csv"
(encoding automatically selected: ISO-8859-2)
(8 vars, 107 obs)

5 .
6 . /*
> B) Gráficar cada uno de los componentes que son siempre positivas - cifras r
> eales vs ln - y comparar.
> */
7 .
8 . gen periodo2 = _n // Creamos una variable numérica para ordenar las fechas

9 . generate time = tq(1993q1) + periodo2 - 1 // Creamos nuestra nueva variable
> de tiempo, la cual empieza desde el primer trimestre de 1993

10 . drop periodo2

11 . format time %tq // Establecemos el nuevo formato de nuestra variable tempora
> l AAAA/trimestre
```

```

12 . order time, after(periodo) // Cambiamos la posición de la nueva variable tim
    > e

13 .

14 . tsset time, quarterly // Declaramos la variable temporal como una serie de t
    > iempo

    Time variable: time, 1993q1 to 2019q3
        Delta: 1 quarter

15 .

16 . graph twoway (line y time, legend(label(1 "PIB"))) (line c time, legend(labe
    > l(2 "Consumo"))) (line g time, legend(label(3 "Gasto de Gobierno"))) (line i
    > time, legend(label(4 "Inversión))), ///
    > xtitle("Año/Trimestre", size(small)) ytitle("Cifras Reales (Millones mxn)",
    > size(small)) ///
    > xlabel(132(8)238 , valuelabel angle(vertical) labsize(small)) ///
    > ylabel(0(2000000)2.00e+07 , valuelabel angle(horizontal) labsize(small)) //
    > /
    > graphregion(fcolor(white)) bgcolor(white) ///
    > legend(size(small) col(2)) ///
    > caption("Fuente: Elaboración propia con datos del INEGI", size(vsmall) span)

17 .

18 . graph export "$graphs/CifrasReales_Trimestral.pdf", as(pdf) replace
    file
        /Users/cristiangudino/Desktop/MacroeconomicsII/Tarea2/Graphs/CifrasReale
        > s_Trimestral.pdf saved as PDF format

19 .

20 . *Generamos de manera individual la variable ln_var = ln(var), la cual nos da
    > la tasa de crecimiento para cada variable en cada trimestre

21 .

22 . gen lny = ln(y)

23 . gen lnc = ln(c)

```

```

24 . gen lng = ln(g)

25 . gen lni = ln(i)

26 .
27 . graph twoway (line lny time, legend(label(1 "PIB"))) (line lnc time, legend(
    > label(2 "Consumo"))) (line lng time, legend(label(3 "Gasto de Gobierno"))) (
    > line lni time, legend(label(4 "Inversión))), ///
    > xtitle("Año/Trimestre", size(small)) ytitle("(ln)", size(small)) ///
    > xlabel(132(8)238 , valuelabel angle(vertical) labsize(small)) ///
    > ylabel(14(1)17 , valuelabel angle(horizontal) labsize(small)) ///
    > graphregion(fcolor(white)) bcolor(white) ///
    > legend(size(small) col(2)) ///
    > caption("Fuente: Elaboración propia con datos del INEGI", size(vsmall) span)

28 .
29 . graph export "$graphs/Cifrasln_Trimestral.pdf", as(pdf) replace
    file
        /Users/cristiangudino/Desktop/MacroeconomicsII/Tarea2/Graphs/Cifrasln_Tr
        > imestral.pdf saved as PDF format

30 .
31 . /*
    > C)Graficar las tasas de crecimientos de las cuatro variables anteriores.
    > Tasa de crecimiento = (var_t - var_t-1)/var_t-1
    > */
32 .
33 . *Para crear una variable con lag utilizamos el comando lag. De manera análogo
    > a, creamos de manera individual cada variable lag de y, c, i, g.
34 .
35 . gen lagy = y[_n - 1]
    (1 missing value generated)

36 . replace lagy = 0 if lagy == . // Reemplazamos missing value de la primera ob
    > servación para evitar errores de cálculo.
    (1 real change made)

```

```

37 . gen lagc = c[_n - 1]
    (1 missing value generated)

38 . replace lagc = 0 if lagc == .
    (1 real change made)

39 . gen lagg = g[_n - 1]
    (1 missing value generated)

40 . replace lagg = 0 if lagg == .
    (1 real change made)

41 . gen lagi = i[_n - 1]
    (1 missing value generated)

42 . replace lagi = 0 if lagi == .
    (1 real change made)

43 .
44 . *Para crear las variables de tasas de crecimiento de cada una de las variabl
    > es:
45 .
46 . gen ty = (y/lagy) - 1
    (1 missing value generated)

47 . replace ty = 0 if ty == . // Reemplazamos missing values por un cero para te
    > ner consistencia en las gráficas
    (1 real change made)

48 . gen tc = (c/lagc) - 1
    (1 missing value generated)

49 . replace tc = 0 if tc == .
    (1 real change made)

50 . gen tg = (g/lagg) - 1
    (1 missing value generated)

```

```

51 . replace tg = 0 if tg == .
    (1 real change made)

52 . gen ti = (i/lagi) - 1
    (1 missing value generated)

53 . replace ti = 0 if ti == .
    (1 real change made)

54 .
55 . *Gráfica para el PIB
56 .
57 . graph twoway (line ty time, legend(label(1 "PIB"))), ///
    > title("Tasa de Crecimiento PIB", size(small) justification(center)) ///
    > xtitle("Año/Trimestre", size(small)) ytitle("Tasa de Crecimiento", size(smal
    > l)) ///
    > xlabel(132(8)238 , valuelabel angle(vertical) labsize(small)) ///
    > ylabel(-0.06(0.02)0.05 , valuelabel angle(horizontal) labsize(small)) ///
    > graphregion(fcolor(white)) bcolor(white) ///
    > legend(size(small) col(1)) ///
    > name(g1, replace) nodraw

58 .
59 . *Gráfica para el Consumo
60 .
61 . graph twoway (line tc time, legend(label(2 "Consumo"))), ///
    > title("Tasa de Crecimiento Consumo", size(small) justification(center)) ///
    > xtitle("Año/Trimestre", size(small)) ytitle("Tasa de Crecimiento", size(smal
    > l)) ///
    > xlabel(132(8)238 , valuelabel angle(vertical) labsize(small)) ///
    > ylabel(-0.07(0.02)0.04 , valuelabel angle(horizontal) labsize(small)) ///
    > graphregion(fcolor(white)) bcolor(white) ///
    > legend(size(small) col(1)) ///
    > name(g2, replace) nodraw

62 .
63 .

```

```

64 . graph combine g1 g2, name(combine1, replace) cols(1) ///
    > graphregion(fcolor(white)) ///
    > note("Fuente: Elaboración propia con datos del INEGI", size(tiny) span)

65 .
66 . graph export "$graphs/TasasCrecimiento1_Trimestral.pdf", as(pdf) replace
    file
        /Users/cristiangudino/Desktop/MacroeconomicsII/Tarea2/Graphs/TasasCrecim
        > ientol_Trimestral.pdf saved as PDF format

67 .
68 . *Gráfica para el Gasto de Gobierno
69 .
70 . graph twoway (line tg time, legend(label(3 "Gasto de Gobierno"))), ///
    > title("Tasa de Crecimiento Gasto de Gobierno", size(small) justification(cen
    > ter)) ///
    > xtitle("Año/Trimestre", size(small)) ytitle("Tasa de Crecimiento", size(smal
    > l)) ///
    > xlabel(132(8)238 , valuelabel angle(vertical) labsize(small)) ///
    > ylabel(-0.03(0.01)0.03 , valuelabel angle(horizontal) labsize(small)) ///
    > graphregion(fcolor(white)) bgcolor(white) ///
    > legend(size(small) col(1)) ///
    > name(g3, replace) nodraw

71 .
72 . *Gráfica para la Inversión
73 .
74 . graph twoway (line ti time, legend(label(4 "Inversión"))), ///
    > title("Tasa de Crecimiento Inversión", size(small) justification(center)) //
    > /
    > xtitle("Año/Trimestre", size(small)) ytitle("Tasa de Crecimiento", size(smal
    > l)) ///
    > xlabel(132(8)238 , valuelabel angle(vertical) labsize(small)) ///
    > ylabel(-0.3(0.05)0.1, valuelabel angle(horizontal) labsize(small)) ///
    > graphregion(fcolor(white)) bgcolor(white) ///
    > legend(size(small) col(1)) ///
    > name(g4, replace) nodraw

```

```

75 .
76 .
77 . graph combine g3 g4, name(combine2, replace) cols(1) ///
    > graphregion(fcolor(white)) ///
    > note("Fuente: Elaboración propia con datos del INEGI", size(tiny) span)

78 .
79 . graph export "$graphs/TasasCrecimiento2_Trimestral.pdf", as(pdf) replace
    file
    /Users/cristiangudino/Desktop/MacroeconomicsII/Tarea2/Graphs/TasasCrecim
    > iento2_Trimestral.pdf saved as PDF format

80 .
81 . /*
    > D) Considerando sólo Consumo y PIB, graficar los puntos (\deltaC, \deltaY)
    > */
82 .
83 . graph twoway scatter tc ty, msymbol(Dh) ///
    > title("Gráfica de dispersión PIB vs Consumo", size(small) justification(cent
    > er)) ///
    > xtitle("Tasa de crecimiento PIB", size(small)) ytitle("Tasa de crecimiento C
    > onsumo", size(small)) ///
    > graphregion(fcolor(white)) bgcolor(white) ///
    > caption("Fuente: Elaboración propia con datos del INEGI", size(small) span)

84 .
85 . graph export "$graphs/Dispersión_PIBvsConsumo.pdf", as(pdf) replace
    file
    /Users/cristiangudino/Desktop/MacroeconomicsII/Tarea2/Graphs/Dispersión_
    > PIBvsConsumo.pdf saved as PDF format

86 .
87 . /*
    > E) Calcular la volatilidad de las dos series de tasas de crecimiento.
    >
    > Sabemos que cuando hablamos de volatilidad solemos referirnos a la desviació
    > n estándar, tomada con signo positivo. Por definición, la desviación estándar
    > r de una variable no es mas que la raíz cuadrada de su varianza.
    > */

```

88 .

89 . sum ty lny tc lnc, det // Nos permite conocer las estadísticas descriptivas
> de las series de tasas de crecimiento para el PIB y Consumo.

ty

	Percentiles	Smallest		
1%	-.0511819	-.057467		
5%	-.0086521	-.0511819		
10%	-.0047247	-.0489362	Obs	107
25%	.0023479	-.0163142	Sum of wgt.	107
50%	.007173		Mean	.0058408
		Largest	Std. dev.	.0129532
75%	.0110009	.024794		
90%	.0187807	.0268949	Variance	.0001678
95%	.021032	.0301897	Skewness	-2.425971
99%	.0301897	.0329895	Kurtosis	12.80468

lny

	Percentiles	Smallest		
1%	16.11019	16.09144		
5%	16.13749	16.11019		
10%	16.16875	16.12471	Obs	107
25%	16.3315	16.12736	Sum of wgt.	107
50%	16.46391		Mean	16.4532
		Largest	Std. dev.	.1820096
75%	16.6014	16.73429		
90%	16.70868	16.73507	Variance	.0331275
95%	16.73291	16.73888	Skewness	-.2072651
99%	16.73888	16.73903	Kurtosis	2.088753

tc

	Percentiles	Smallest		
1%	-.0417713	-.0676228		
5%	-.0084455	-.0417713		
10%	-.0041356	-.0376581	Obs	107
25%	.0009909	-.0191957	Sum of wgt.	107
50%	.0073259		Mean	.0066699
		Largest	Std. dev.	.0132373
75%	.0144091	.0266107		
90%	.0212909	.0272164	Variance	.0001752
95%	.0232557	.0274495	Skewness	-2.298736
99%	.0274495	.0307256	Kurtosis	13.06687

lnc

	Percentiles	Smallest		
1%	15.64588	15.64		
5%	15.65939	15.64588		
10%	15.67707	15.64887	Obs	107
25%	15.88361	15.64888	Sum of wgt.	107
50%	16.08896		Mean	16.03817
		Largest	Std. dev.	.2093602
75%	16.19234	16.3379		
90%	16.30427	16.34161	Variance	.0438317
95%	16.33733	16.34177	Skewness	-.4879601
99%	16.34177	16.34783	Kurtosis	2.132631

90 .

```
91 . outreg2 using summary, tex replace sum(detail) keep(ty lny tc lnc) eqkeep(N
> mean sd Var min max)
```

time

	Percentiles	Smallest		
1%	133	132		
5%	137	133		
10%	142	134	Obs	107
25%	158	135	Sum of wgt.	107
50%	185		Mean	185
		Largest	Std. dev.	31.03224
75%	212	235		
90%	228	236	Variance	963
95%	233	237	Skewness	0
99%	237	238	Kurtosis	1.79979

Y

	Percentiles	Smallest		
1%	9921230	9736936		
5%	1.02e+07	9921230		
10%	1.05e+07	1.01e+07	Obs	107
25%	1.24e+07	1.01e+07	Sum of wgt.	107
50%	1.41e+07		Mean	1.42e+07
		Largest	Std. dev.	2536090
75%	1.62e+07	1.85e+07		
90%	1.81e+07	1.85e+07	Variance	6.43e+12
95%	1.85e+07	1.86e+07	Skewness	.0724381
99%	1.86e+07	1.86e+07	Kurtosis	2.019853

C

	Percentiles	Smallest		
1%	6236193	6199652		
5%	6320988	6236193		
10%	6433793	6254854	Obs	107
25%	7909782	6254902	Sum of wgt.	107
50%	9712863		Mean	9427023
		Largest	Std. dev.	1872353
75%	1.08e+07	1.25e+07		
90%	1.20e+07	1.25e+07	Variance	3.51e+12
95%	1.25e+07	1.25e+07	Skewness	-.1987582
99%	1.25e+07	1.26e+07	Kurtosis	2.019953

G

	Percentiles	Smallest		
1%	1407266	1400313		
5%	1429084	1407266		
10%	1443169	1408021	Obs	107
25%	1597582	1424324	Sum of wgt.	107
50%	1671367		Mean	1757091
		Largest	Std. dev.	246718.1
75%	1973902	2185154		
90%	2139748	2200914	Variance	6.09e+10
95%	2177641	2210584	Skewness	.3783536
99%	2210584	2223988	Kurtosis	1.861798

I

	Percentiles	Smallest		
1%	1496103	1476316		
5%	1812231	1496103		
10%	2083076	1644163	Obs	107
25%	2436776	1680733	Sum of wgt.	107
50%	3001446		Mean	2916968
		Largest	Std. dev.	629726.7
75%	3537532	3798115		
90%	3725305	3806069	Variance	3.97e+11
95%	3768913	3810515	Skewness	-.2472079
99%	3810515	3858489	Kurtosis	2.026301

X

	Percentiles	Smallest		
1%	1469001	1430233		
5%	1588012	1469001		
10%	1994754	1494371	Obs	107
25%	2810673	1557092	Sum of wgt.	107
50%	3650612		Mean	3941652
		Largest	Std. dev.	1526689
75%	5049161	6799603		
90%	6265124	6805347	Variance	2.33e+12
95%	6781811	6993221	Skewness	.3456035
99%	6993221	7023756	Kurtosis	2.165391

M

	Percentiles	Smallest		
1%	1495226	1492723		
5%	1599863	1495226		
10%	1785727	1539877	Obs	107
25%	2966039	1571378	Sum of wgt.	107
50%	4123027		Mean	4118542
		Largest	Std. dev.	1569515
75%	5282134	6896833		
90%	6383769	6919612	Variance	2.46e+12
95%	6858034	6971336	Skewness	.0186492
99%	6971336	7007410	Kurtosis	2.093324

XN

	Percentiles	Smallest		
1%	-695011.1	-917493.9		
5%	-581640.1	-695011.1		
10%	-473308.5	-661020.8	Obs	107
25%	-349733.2	-617498.1	Sum of wgt.	107
50%	-210338.2		Mean	-176890.1
		Largest	Std. dev.	266810.5
75%	-23162.61	434951		
90%	126922.9	471814.6	Variance	7.12e+10
95%	383708.6	474389.5	Skewness	.3950151
99%	474389.5	477950.7	Kurtosis	3.410699

lny

	Percentiles	Smallest		
1%	16.11019	16.09144		
5%	16.13749	16.11019		
10%	16.16875	16.12471	Obs	107
25%	16.3315	16.12736	Sum of wgt.	107
50%	16.46391		Mean	16.4532
		Largest	Std. dev.	.1820096
75%	16.6014	16.73429		
90%	16.70868	16.73507	Variance	.0331275
95%	16.73291	16.73888	Skewness	-.2072651
99%	16.73888	16.73903	Kurtosis	2.088753

lnc

	Percentiles	Smallest		
1%	15.64588	15.64		
5%	15.65939	15.64588		
10%	15.67707	15.64887	Obs	107
25%	15.88361	15.64888	Sum of wgt.	107
50%	16.08896		Mean	16.03817
		Largest	Std. dev.	.2093602
75%	16.19234	16.3379		
90%	16.30427	16.34161	Variance	.0438317
95%	16.33733	16.34177	Skewness	-.4879601
99%	16.34177	16.34783	Kurtosis	2.132631

lng

	Percentiles	Smallest		
1%	14.15716	14.15221		
5%	14.17254	14.15716		
10%	14.18235	14.1577	Obs	107
25%	14.284	14.16921	Sum of wgt.	107
50%	14.32915		Mean	14.36958
		Largest	Std. dev.	.1385563
75%	14.49552	14.5972		
90%	14.5762	14.60438	Variance	.0191978
95%	14.59375	14.60877	Skewness	.2252013
99%	14.60877	14.61481	Kurtosis	1.810657

lni

	Percentiles	Smallest		
1%	14.21837	14.20506		
5%	14.41007	14.21837		
10%	14.54936	14.31274	Obs	107
25%	14.70619	14.33474	Sum of wgt.	107
50%	14.9146		Mean	14.86076
		Largest	Std. dev.	.2320226
75%	15.07894	15.15002		
90%	15.13066	15.15211	Variance	.0538345
95%	15.1423	15.15327	Skewness	-.6633977
99%	15.15327	15.16579	Kurtosis	2.862151

lagy

	Percentiles	Smallest		
1%	9736936	0		
5%	1.01e+07	9736936		
10%	1.04e+07	9921230	Obs	107
25%	1.23e+07	1.01e+07	Sum of wgt.	107
50%	1.41e+07		Mean	1.40e+07
		Largest	Std. dev.	2850187
75%	1.62e+07	1.85e+07		
90%	1.80e+07	1.85e+07	Variance	8.12e+12
95%	1.85e+07	1.85e+07	Skewness	-.973907
99%	1.85e+07	1.86e+07	Kurtosis	6.832495

lagc

	Percentiles	Smallest		
1%	6199652	0		
5%	6292018	6199652		
10%	6422592	6236193	Obs	107
25%	7768645	6254854	Sum of wgt.	107
50%	9694504		Mean	9309428
		Largest	Std. dev.	2058199
75%	1.07e+07	1.25e+07		
90%	1.19e+07	1.25e+07	Variance	4.24e+12
95%	1.24e+07	1.25e+07	Skewness	-.9221332
99%	1.25e+07	1.25e+07	Kurtosis	5.290268

lagg

	Percentiles	Smallest		
1%	1400313	0		
5%	1425190	1400313		
10%	1439914	1407266	Obs	107
25%	1586975	1408021	Sum of wgt.	107
50%	1666509		Mean	1736922
		Largest	Std. dev.	296763.7
75%	1968737	2185154		
90%	2131969	2200914	Variance	8.81e+10
95%	2177641	2210584	Skewness	-1.568167
99%	2210584	2223988	Kurtosis	12.10459

lagi

	Percentiles	Smallest		
1%	1476316	0		
5%	1717361	1476316		
10%	2075338	1496103	Obs	107
25%	2435757	1644163	Sum of wgt.	107
50%	2936393		Mean	2883907
		Largest	Std. dev.	687088.2
75%	3530510	3798115		
90%	3725305	3806069	Variance	4.72e+11
95%	3768913	3810515	Skewness	-.7774117
99%	3810515	3858489	Kurtosis	4.352551

ty

	Percentiles	Smallest		
1%	-.0511819	-.057467		
5%	-.0086521	-.0511819		
10%	-.0047247	-.0489362	Obs	107
25%	.0023479	-.0163142	Sum of wgt.	107
50%	.007173		Mean	.0058408
		Largest	Std. dev.	.0129532
75%	.0110009	.024794		
90%	.0187807	.0268949	Variance	.0001678
95%	.021032	.0301897	Skewness	-2.425971
99%	.0301897	.0329895	Kurtosis	12.80468

tc

	Percentiles	Smallest		
1%	-.0417713	-.0676228		
5%	-.0084455	-.0417713		
10%	-.0041356	-.0376581	Obs	107
25%	.0009909	-.0191957	Sum of wgt.	107
50%	.0073259		Mean	.0066699
		Largest	Std. dev.	.0132373
75%	.0144091	.0266107		
90%	.0212909	.0272164	Variance	.0001752
95%	.0232557	.0274495	Skewness	-2.298736
99%	.0274495	.0307256	Kurtosis	13.06687

tg

	Percentiles	Smallest		
1%	-.0234416	-.0241522		
5%	-.0105454	-.0234416		
10%	-.0073267	-.0140405	Obs	107
25%	-.0025345	-.0112177	Sum of wgt.	107
50%	.0049655		Mean	.0040964
		Largest	Std. dev.	.0096597
75%	.0106028	.0224005		
90%	.0164704	.0252503	Variance	.0000933
95%	.0197741	.0252948	Skewness	-.1015951
99%	.0252948	.0285284	Kurtosis	3.331158

ti

	Percentiles	Smallest		
1%	-.1216234	-.3062722		
5%	-.0358184	-.1216234		
10%	-.0296323	-.0983066	Obs	107
25%	-.0041361	-.0413404	Sum of wgt.	107
50%	.0100457		Mean	.0060469
		Largest	Std. dev.	.0432836
75%	.0246845	.0685532		
90%	.0416238	.0695556	Variance	.0018735
95%	.0573986	.0755281	Skewness	-3.714286
99%	.0755281	.098964	Kurtosis	27.41139

Following variable is string, not included:

periodo

summary.tex

dir : seeout

```
92 .
93 . *Dados los resultados anteriores, podemos ver que el consumo tiene una mayor
    > varianza, por lo que su sd será mayor respecto el PIB, de este modo podemos
    > concluir que el componente del consumo tiene mayor volatilidad.
94 .
95 . /*
    > F) Estimar los siguientes cuatro modelos lineales reportando los resultados
    > de la regresión:
    >
    > 1.-  $C_t = a_1 + b_1 * Y_t + e_1$ 
    >
    > 2.-  $\Delta C_t = a_2 + b_2 * \Delta Y_t + e_2$ 
    >
    > 3.-  $\Delta C_t = a_3 + b_3 * \Delta Y_{t-1} + e_3$ 
    >
    > 4.-  $\ln(C_t) = a_4 + b_4 * \ln(Y_t) + e_3$ 
    >
    > */
96 .
97 . *Dado que para el modelo 3 tenemos un lag  $Y_{t-1}$  como var independiente, ento
    > nces debemos crear una nueva variable de crecimiento en el producto.
98 .
99 . gen lagy2 = y[_n - 2]
    (2 missing values generated)

100 . replace lagy2 = 0 if lagy2 == .
    (2 real changes made)

101 . order lagy2, after(lagy)

102 .
103 . gen ty2 = (lagy/lagy2) - 1
    (2 missing values generated)
```



```

104 . replace ty2 = 0 if ty2 == .
    (2 real changes made)

105 .
106 . label variable c "Consumo"

107 . label variable y "PIB"

108 . label variable ty "\Delta PIB_t"

109 . label variable ty2 "\Delta PIB_t-1"

110 . label variable lnc "ln(C)"

111 . label variable lny "ln(PIB)"

112 .
113 . *Modelo 1
114 .
115 . reg c y, robust // Regresión lineal simple: consumo como variable dependient
    > e y PIB como variable independiente

```

```

Linear regression              Number of obs   =      107
                               F(1, 105)        =    7558.53
                               Prob > F          =      0.0000
                               R-squared          =      0.9789
                               Root MSE        =      2.7e+0

```

> 5

		Robust				
	c	Coefficient	std. err.	t	P> t	[95% conf. interval]
y		.7304619	.0084019	86.94	0.000	.7138024 .7471213
_cons		-951851.6	126345.9	-7.53	0.000	-1202372 -701331

```

116 .
117 . *Modelo 2
118 .
119 . reg tc ty, robust // Regresión líneal simple: tasa de crecimiento del consum
    > o como variable dependiente y tasa de crecimiento del PIB como variable inde
    > pendiente

```

```

Linear regression              Number of obs   =      107
                              F(1, 105)       =      56.11
                              Prob > F         =      0.0000
                              R-squared        =      0.6511
                              Root MSE     =      .00786

```

tc	Robust		t	P> t	[95% conf. interval]	
	Coefficient	std. err.				
ty	.824604	.110081	7.49	0.000	.6063338	1.042874
_cons	.0018535	.0011718	1.58	0.117	-.0004698	.0041769

```

120 .
121 .
122 . *Modelo 3
123 .
124 . reg tc ty2, robust // Regresión líneal simple: tasa de crecimiento del consu
    > mo como variable dependiente y tasa de crecimiento del PIB con un lag como v
    > ariable independiente

```

```

Linear regression              Number of obs   =      107
                              F(1, 105)       =      8.66
                              Prob > F         =      0.0040
                              R-squared        =      0.0789
                              Root MSE     =      .01276

```

tc	Robust		t	P> t	[95% conf. interval]	
	Coefficient	std. err.				
ty2	.2867646	.0974699	2.94	0.004	.0934998	.4800294
_cons	.0050141	.0014047	3.57	0.001	.0022289	.0077993

```

125 .
126 . *Modelo 4
127 .
128 . reg lnc lny, robust // Regresión líneal simple: ln deel consumo como variabl
    > e dependiente y ln del PIB como variable independiente

```

```

Linear regression              Number of obs    =          107
                              F(1, 105)         =        6626.06
                              Prob > F           =          0.0000
                              R-squared          =          0.9776
                              Root MSE       =          .03145

```

		Robust				
	lnc	Coefficient	std. err.	t	P> t	[95% conf. interval]
	lny	1.137339	.0139721	81.40	0.000	1.109635 1.165044
	_cons	-2.674694	.2303382	-11.61	0.000	-3.131413 -2.217976

```

129 .
130 .
131 . reg c y, robust

```

```

Linear regression              Number of obs    =          107
                              F(1, 105)         =        7558.53
                              Prob > F           =          0.0000
                              R-squared          =          0.9789
                              Root MSE       =          2.7e+0

```

```
> 5
```

		Robust				
	c	Coefficient	std. err.	t	P> t	[95% conf. interval]
	y	.7304619	.0084019	86.94	0.000	.7138024 .7471213
	_cons	-951851.6	126345.9	-7.53	0.000	-1202372 -701331

```
132 . outreg2 using models, tex replace ctitle(Modelo 1) label
    models.tex
    dir : seeout
```

```
133 . reg tc ty, robust
```

```
Linear regression                Number of obs    =          107
                                F(1, 105)         =          56.11
                                Prob > F           =          0.0000
                                R-squared          =          0.6511
                                Root MSE        =          .00786
```

	Robust					
tc	Coefficient	std. err.	t	P> t	[95% conf. interval]	
ty	.824604	.110081	7.49	0.000	.6063338	1.042874
_cons	.0018535	.0011718	1.58	0.117	-.0004698	.0041769

```
134 . outreg2 using models, tex append ctitle(Modelo 2) label
    models.tex
    dir : seeout
```

```
135 . reg tc ty2, robust
```

```
Linear regression                Number of obs    =          107
                                F(1, 105)         =           8.66
                                Prob > F           =          0.0040
                                R-squared          =          0.0789
                                Root MSE        =          .01276
```

	Robust					
tc	Coefficient	std. err.	t	P> t	[95% conf. interval]	
ty2	.2867646	.0974699	2.94	0.004	.0934998	.4800294
_cons	.0050141	.0014047	3.57	0.001	.0022289	.0077993

```
136 . outreg2 using models, tex append ctitle(Modelo 3) label
    models.tex
    dir : seeout
```

```
137 . reg lnc lny, robust
```

```
Linear regression                Number of obs    =      107
                                F(1, 105)         =    6626.06
                                Prob > F           =      0.0000
                                R-squared           =      0.9776
                                Root MSE        =      .03145
```

	Robust					
lnc	Coefficient	std. err.	t	P> t	[95% conf. interval]	
lny	1.137339	.0139721	81.40	0.000	1.109635	1.165044
_cons	-2.674694	.2303382	-11.61	0.000	-3.131413	-2.217976

```
138 . outreg2 using models, tex append ctitle(Modelo 4) label
    models.tex
    dir : seeout
```

```
139 .
```

```
140 . /*
```

```
> E) Explique qué se podría concluir, si fuera el caso, acerca de la HIP para
> México a partir de los coeficientes encontrados.
```

```
>
```

```
> Sabemos que la HIP postula que el consumo de los agentes será suavizado en f
> unción de las expectativas en el ingreso. Dadas las limitaciones en los mode
> los antes estimados, entonces no podemos conocer el efecto de las expectativ
> as en el ingreso sobre el nivel de consumo, por lo tanto la HIP no puede ser
> aceptada bajo estos modelos.
```

```
>
```

```
> */
```

```
141 .
```

```
142 .
```

```
143 . log close
```

```
    name: <unnamed>
```

```
    log: /Users/cristiangudino/Desktop/MacroeconomicsII/Tarea2/Data/Consum
```

```
> o.smcl
```

```
    log type: smcl
```

```
closed on: 22 Mar 2022, 16:36:04
```