

- Q8. We suppose that C = 70 + 0.70Y D, I = 90, G = 100, T = 0.10Y
- (a) Find the equilibrium income.
- (b) What are tax revenues at equilibrium Income? Does the government have a balanced budget?

Ans: (a) C = 70 + 0.70 YD

I = 90

G = 100

T = 0.10Y

Y = C + I + G

Y = 70 + 0.70Y + 90 + 100

Y = 70 + 0.70YD + 190

Y = 70 + 0.70 (Y - T) + 190

 $Y = 70 + 0.70Y - 0.70 \times 0.10 Y + 190$

Y = 70 + 0.70Y - 0.07Y + 190

Y = 70 + 0.63Y + 190

Y = 260 + 0.63Y

Y - 0.634 = 260

0.37Y = 260

Y = 260/0.37

Y = 702.7

(b) T = 0.10Y

 $= 0.10 \times 702.7$

= 70.27

Government expenditure = 100

Tax revenue = 70.27

As, G > T, Government has a deficit budget, not a balanced budget.

********** END ********