

CLASS 12th ECONOMICS

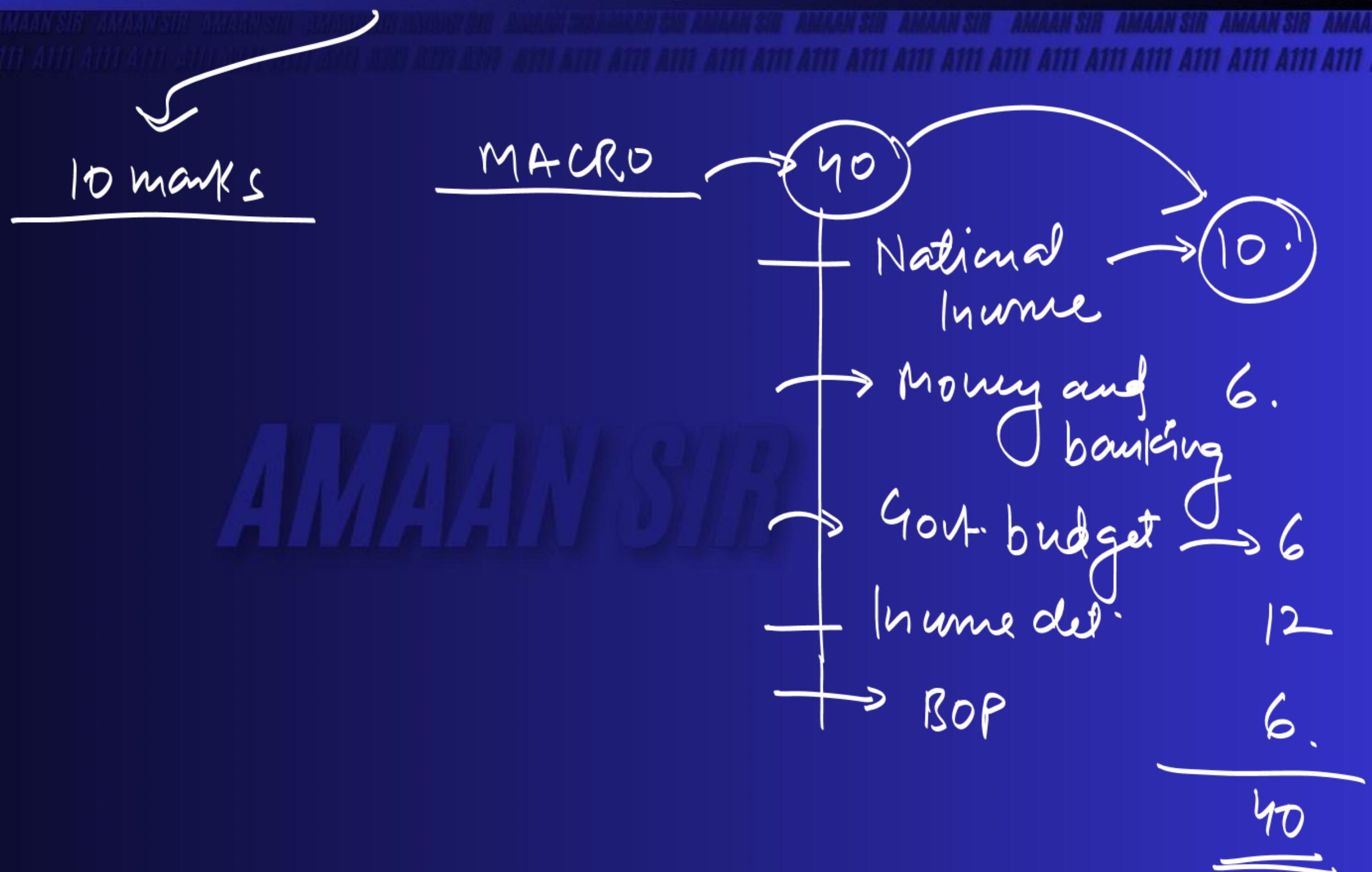
NATIONAL INCOME

CHAPTER-2

ONE SHOT

एक VIDEO में CHAPTER खत्म

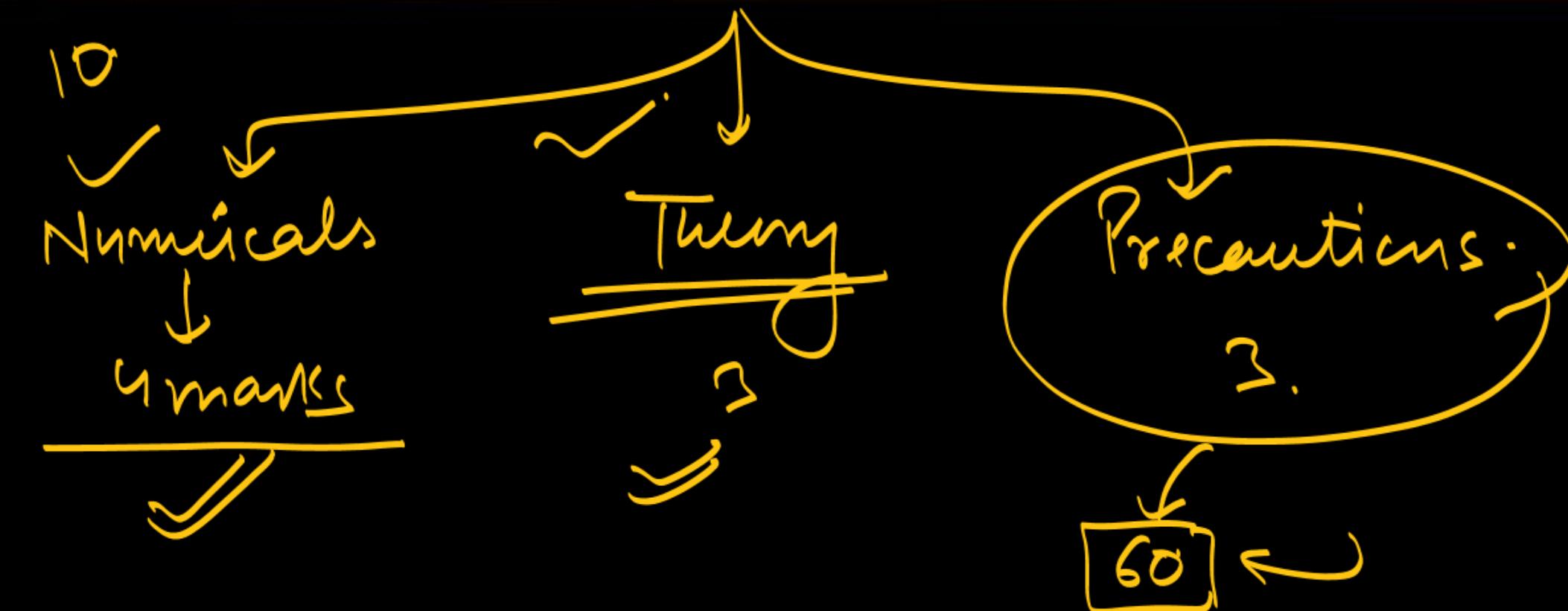






National Income

Amaan sir



METHODS TO CALCULATE NATIONAL INCOME

Enp \rightarrow Inume

Enp.
method

Inume:- \rightarrow method

$$\begin{aligned}
 &= 10 + 20 + 30 + 40 \\
 &= \overline{\underline{2100}} - \\
 &\quad \text{Enp.}
 \end{aligned}$$

$$\begin{aligned}
 &= 10 + 20 + 30 + 40 \\
 &= \overline{\underline{2100}} -
 \end{aligned}$$



INCOME METHOD**EXPENDITURE METHOD****VALUE ADDED METHOD**

→ Faster Income

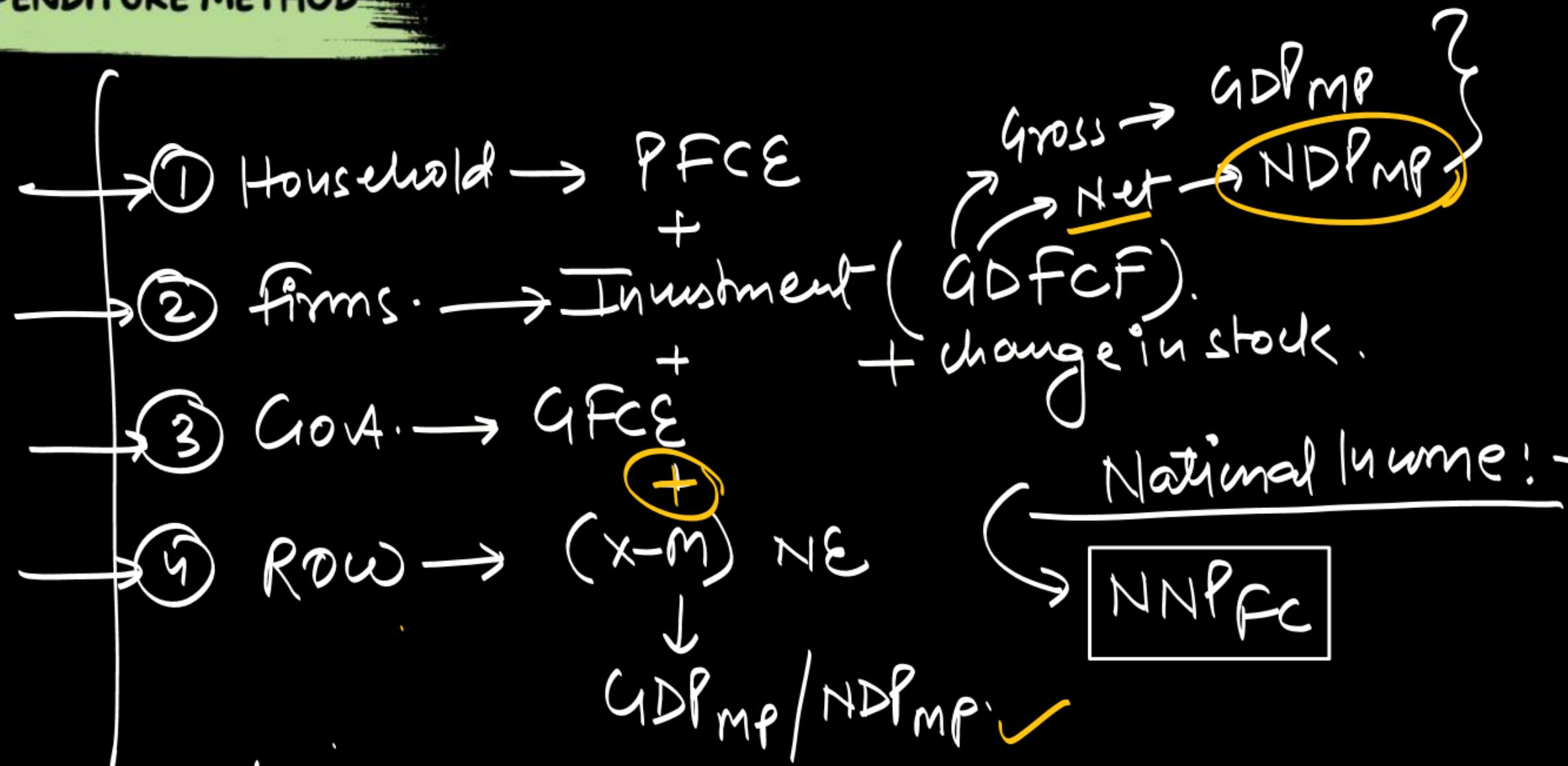


Final expenditure



EXPENDITURE METHOD

20



INCOME METHOD

- ① Compensation of employees (CE)
 - wages and salaries in cash
 - wages and salaries in kind → Facilities
 - Employers contribution to social security schemes

- ② Operating surplus + (OS) Investment
 - Rent ✓
 - interest ✓
 - Royalty ✓
 - Profit ✓

- ③ Mixed Income of self employed

vvv. simple
method.

$$\text{CE} + \text{OS} + \text{MI.} = \text{NDP}_{\text{Fc}}$$

↓

Domestic Income



Telegram:

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Question : Calculate 'Net National Product' at Factor Cost from the Following:
Items

<u>NNP_{FC}</u>	₹ (in Crores)
(i) Wages and Salaries	600
(ii) Rent ↘	200
(iii) Interest ↘	300
(iv) Social Security Contributions by <u>Employers</u>	100 /
(v) Net Factor Income Paid to Abroad	50
(vi) Profits ↘	300

Source: CBSE 2014

Answer - 1,450 crore.

$$\begin{aligned}
 & \text{WE} \quad \text{OS} \\
 & = (600 + 100) + (200 + 300 + 300) + \text{NI} \\
 \text{NDP}_{\text{FC}} &= 1500 \\
 & - 50 \text{ NFA} \\
 \text{NNP}_{\text{FC}} & \underline{1450} \text{ Ans}
 \end{aligned}$$

Value added method / Production method / Output method.

$$GVA_{MP} = \text{value of output} - \text{Intermediate consumption.}$$

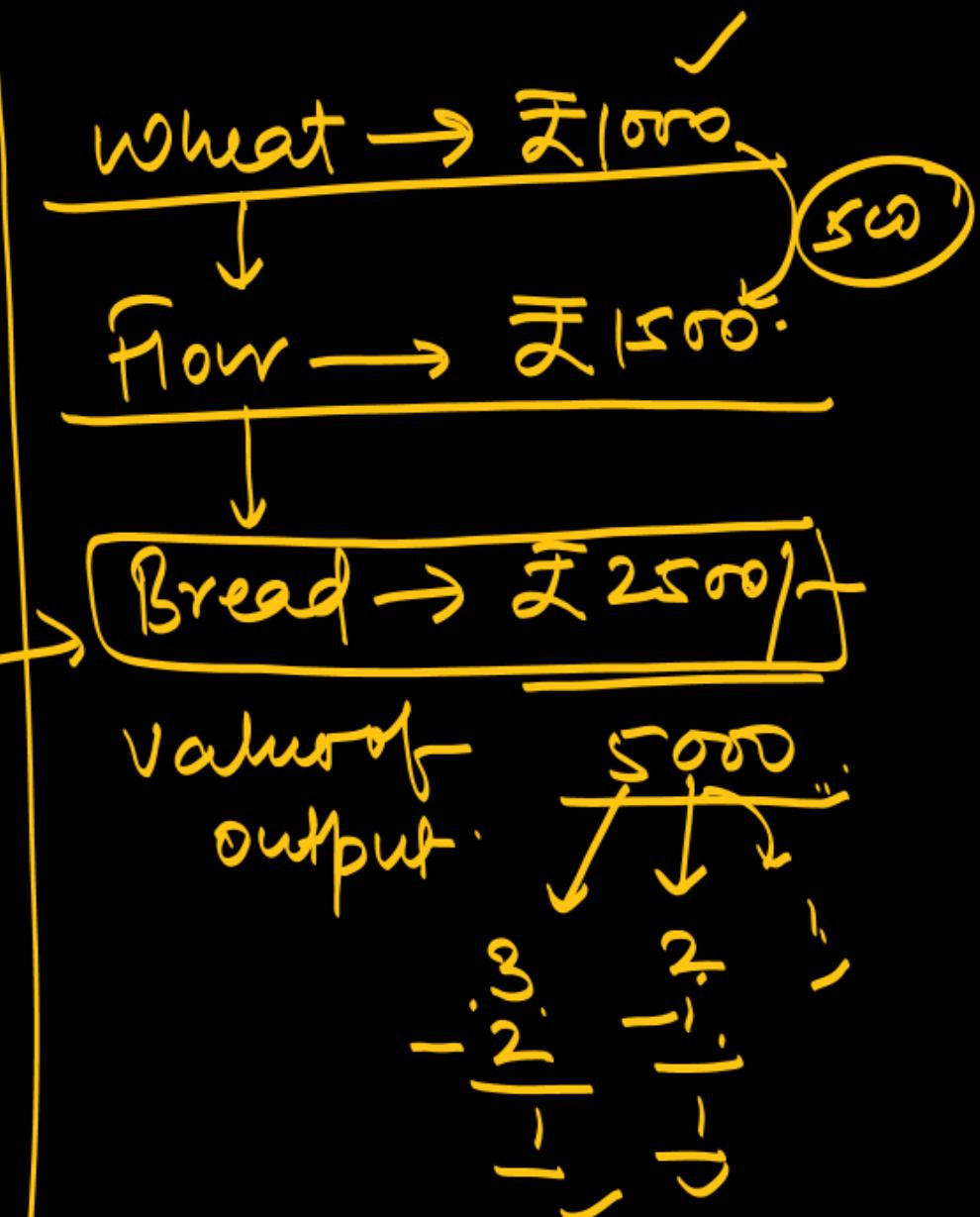
$$GVA_{MP} = V_o - IC$$

$$GDP_{MP} = 5000 - (1000 + 1000 + 500)$$

$$GDP_{MP} = 5000 - (2500)$$

$$GDP_{MP} = \boxed{2500}$$

To avoid the problem of double counting.



Q. Calculate NNP_{FC}

- ✓ • Sales
- ✓ • Change in stock
- ✓ • Production for self uns.

Unsold stock

✓ • Purchase of Raw mat	1200
✓ Consumption of fixed cap.	200
• NFI A	150
• NIT	50

Excr.
1000.
500
500.
1000.

Production method:-

$$\begin{aligned}
 QVA_{MP} &= VO - IC \\
 &= (1000 + 500 + 500) - 1200 \\
 &= 2000 - 1200
 \end{aligned}$$

$$\begin{aligned}
 QDP_{MP} &= 800 \cdot \frac{d}{dp} \\
 \downarrow & \\
 NNP_{FC} &+ \frac{600}{100} NFI A \\
 &= \frac{700}{50} NIT \\
 &= \underline{\underline{650}}
 \end{aligned}$$

$$\text{value of output} = \underbrace{\text{Sales}}_{D} + \underbrace{\text{Prod' for self}}_{I.} + \text{Unsold.}$$

Intermediate wms. → Final production.
→ Resale
→ Reusing
→ Asset X.

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Question : Calculate Gross national product at factor cost: (GNPfc)

Items	₹ (in Crores)
(i) Private final consumption expenditure	2600
(ii) Government final consumption expenditure	1100
(iii) net Exports	- 100
(iv) dividend	200
(v) Consumption of fixed capital	100
(vi) net domestic capital formation	500
(vii) compensation of employees	100
(viii) net Factor income from abroad	-50
(ix) nit	90
(x) profit	- 100
(xi) interest	500
(xii) rent	400

Source: CBSE 2009

Answer - _____ crore.

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Question : Find Gross National Product at Market Price (GNPmp)

$$\begin{aligned}
 &= 800 + 300 + 200 \\
 &\quad + (-30) \\
 \text{NDP}_M P &= 1270 \\
 &\quad + 100 \text{ dep} \\
 \text{GNP}_M P &= \underline{\underline{1370}} \\
 &\quad - -10 \text{ NFI} A \\
 &\quad \underline{\underline{1380}}
 \end{aligned}$$

Items	₹ (in Crores)
(i) Private final consumption expenditure	800
(ii) Net current transfers to abroad	20
(iii) Net factor income to abroad ✓	(-) 10
(iv) Government final consumption expenditure	300
(V) indirect tax	150
(vi) <u>Net</u> domestic capital formation	200
(vii) Depreciation ✓	100
(viii) <u>Net</u> imports	30 ✓

Source: CBSE 2016
Answer - 1,380 crore.

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NDPfc
Question 2: Compute Domestic Income from the following (NDPfc).

Items	<u>GDP_{MP}</u>	₹ (in Crores)
= 2200 + 2500 + 1190	(i) Government final consumption expenditure	2,500
+ (-100) - 420	(ii) Subsidies	120
	(iii) Gross domestic fixed capital formation	1,190

<u>GDP_{MP}</u> = 5370 dup	(iv) Net factor income to abroad	125
- 145 dup	(V) <u>Net decrease in inventories (change in stock)</u>	100
<u>NDP_{Re}</u> = <u>5225</u>	(Vi) <u>Net exports</u>	(-) 420
<u>NDP_{Re}</u> = <u>470 NIT</u>	(vii) Net indirect taxes	470
<u>NDP_{Re}</u> = <u>4755</u>	(viii) <u>Current replacement cost (depreciation)</u>	145
	(IX) <u>Private final consumption expenditure</u>	2,200

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Hw



Calculate Gross Domestic Product (GDPfc) and FITA:

1. compensation of employees
2. Profits
3. dividends
4. GNPmp
5. Rent
6. interest
7. gross domestic capital formation
8. net domestic fixed capital formation
9. change in stock
10. FIFA
11. NIT

→ 2010
CBSE

1000
200
50
1400
150
100
300
200
50
60
120

Numerical
Incomes ✓
Emp. ✓
value added ✓

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7

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Calculate Gross Domestic Product (GDPfc) and FITA:

1. compensation of employees	1000
2. Profits	200
3. dividends	50
4. GNPmp	1400
5. Rent	150
6. interest	100
7. gross domestic capital formation	300
8. net domestic fixed capital formation	200
9. change in stock	50
10. FIFA	60
11. NIT	120

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Income method:-

$$= 250 + (100 + 200 + 50) + 50$$

COE OS MI

$$\begin{aligned} \text{NDP}_{fc} &= 650 \\ &\pm 20 \quad \text{NFIA} \\ \text{NNP}_{fc} &= \underline{\underline{670}} \quad \text{Ans} \end{aligned}$$

Expenditure method:-

$$= 550 + 60 + 120 + 20 + (10 - 20)$$

$$\begin{aligned} \text{GDP}_{mp} &= 740 \\ &- 10 \quad \text{dep} \\ \text{NNP}_{fc} &+ \underline{\underline{730}} \quad \text{NFIA} \end{aligned}$$

Item	Value
Compensation of Employees (COE) ✓	250
Imports M	20
Mixed Income (MI) MI	50
Gross Fixed Capital Formation GDFCF	120
Private Final Consumption Expenditure (PFCE) PFCE	550
Depreciation (Dep) Dep	10
Net Factor Income from Abroad (NFIA) NFIA	20
Indirect Taxes (IT) IT	100
Change in Stock Δ stock	20
Subsidies Sub.	20
Rent R	100
Interest I	200
Profit P	50
Exports X	10
GFCE	60
Government Final Consumption Expenditure (GFCE)	60

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GDP :- Total volume of goods and services produced in an economy expressed in monetary terms.

$$\begin{aligned} \text{GDP} &= P \times Q \\ &= ₹20 \times 1000 \text{ units} \\ &= ₹20,000 \end{aligned}$$

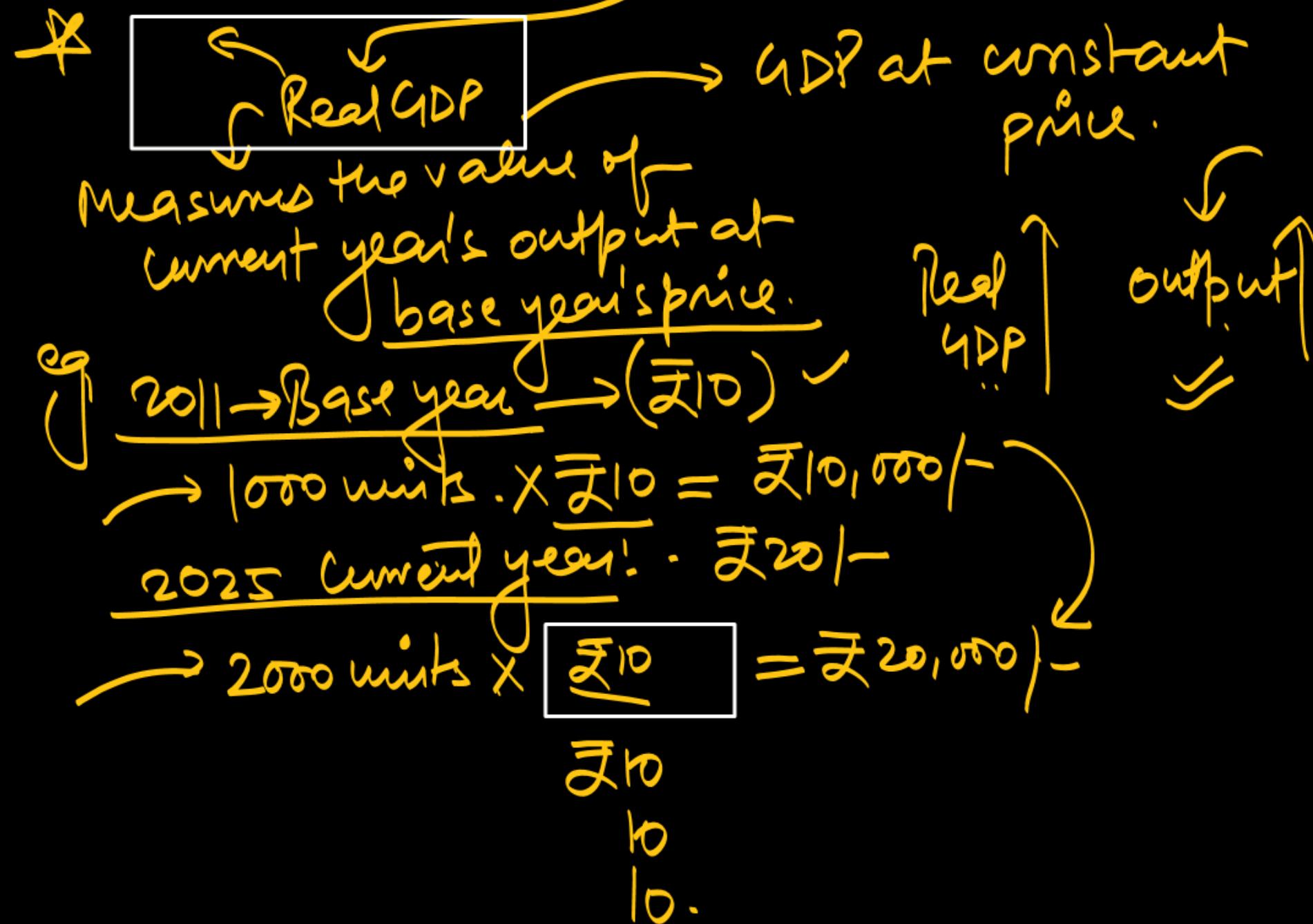
Theory of National Income

- GDP
- Types of GDP ✓
 - Nominal GDP
 - Real GDP
- Double counting
- Factor income and transfer income
- Intermediate goods and Final goods
- Domestic territory
- Normal residents
- Circular flow of income
-

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Types of GDP *



Theory of National Income

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- Domestic territory
- Normal residents
- Circular flow of income
-

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~~Snakes~~ ~~Ex:~~ Nominal \rightarrow GDP at current price
 Measures the value of current year's output at current year's price.

2011 Base year ₹10

$$\frac{1000 \text{ units}}{\text{2011 Current year}} \times ₹10 = ₹10,000/-$$

2025 Current year ₹20

$$\frac{1000 \text{ units}}{\text{2025 Current year}} \times ₹ \boxed{20} = ₹20,000/-$$

Misleading figures.

Inflation

GDP↑ Output↑

Theory of National Income

- GDP
- Types of GDP ✓
 - Nominal GDP
 - Real GDP

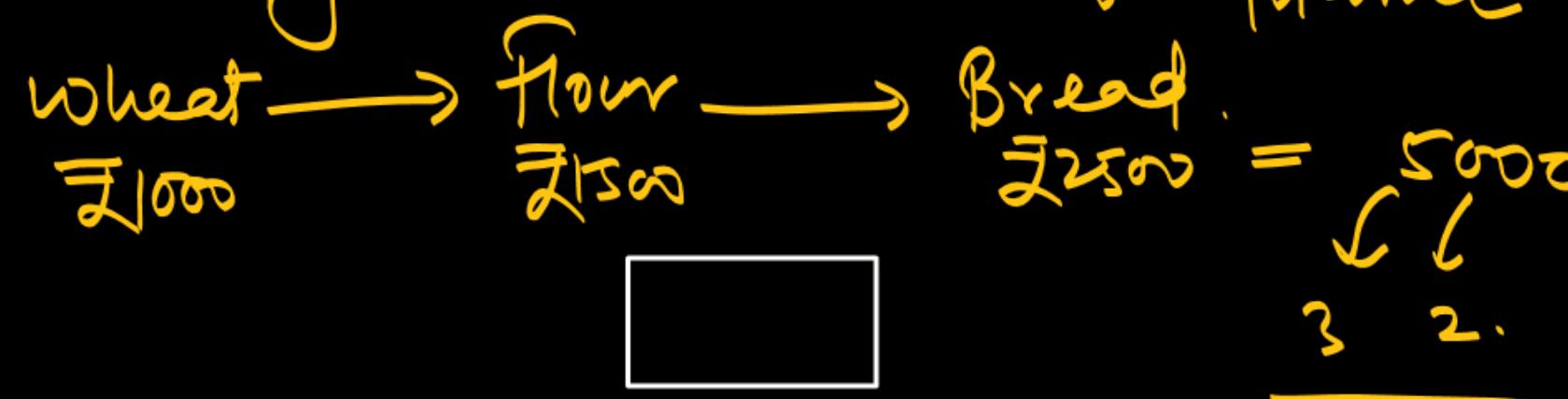
- ✓ Double counting
- Factor income and transfer income
- Intermediate goods and Final goods
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- Normal residents
- Circular flow of income
-

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Double counting:

Counting the value of a commodity
twice or more than twice
during the calculation of national income

Theory of National Income

- GDP
- Types of GDP ✓
 - Nominal GDP
 - Real GDP
- ✓ Double counting
- ✓ Factor income and transfer income
- Intermediate goods and Final goods
- Domestic territory
- Normal residents
- Circular flow of income
-

Methods:-

① Value added.

$$1000 + 500 + 1000 = ₹2500$$

② Final product

→ Bread → 2500/-

$$GVA_{MP} = VO - IC$$

$$= 5000 - (2500)$$

$$= \boxed{2500}$$

Factor Income

- Income earned
- bilateral
- e.g. wages, salaries, dividend etc.
- Added in national income

Transfer Income

- Income received
- Unilateral
- e.g. gift, donation etc.
- Not added

Intermediate goods

- Help in the production process of final goods.
- Not added in national income
- Purchased for resale
- Remain within the production boundary

Final goods

- They are meant for final consumption.
- Added.
- Purchased for consumption.
- Outside the production boundary

Intermediate goods

- Help in the production process of final goods.
- Not added in national income
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- Remain within the production boundary

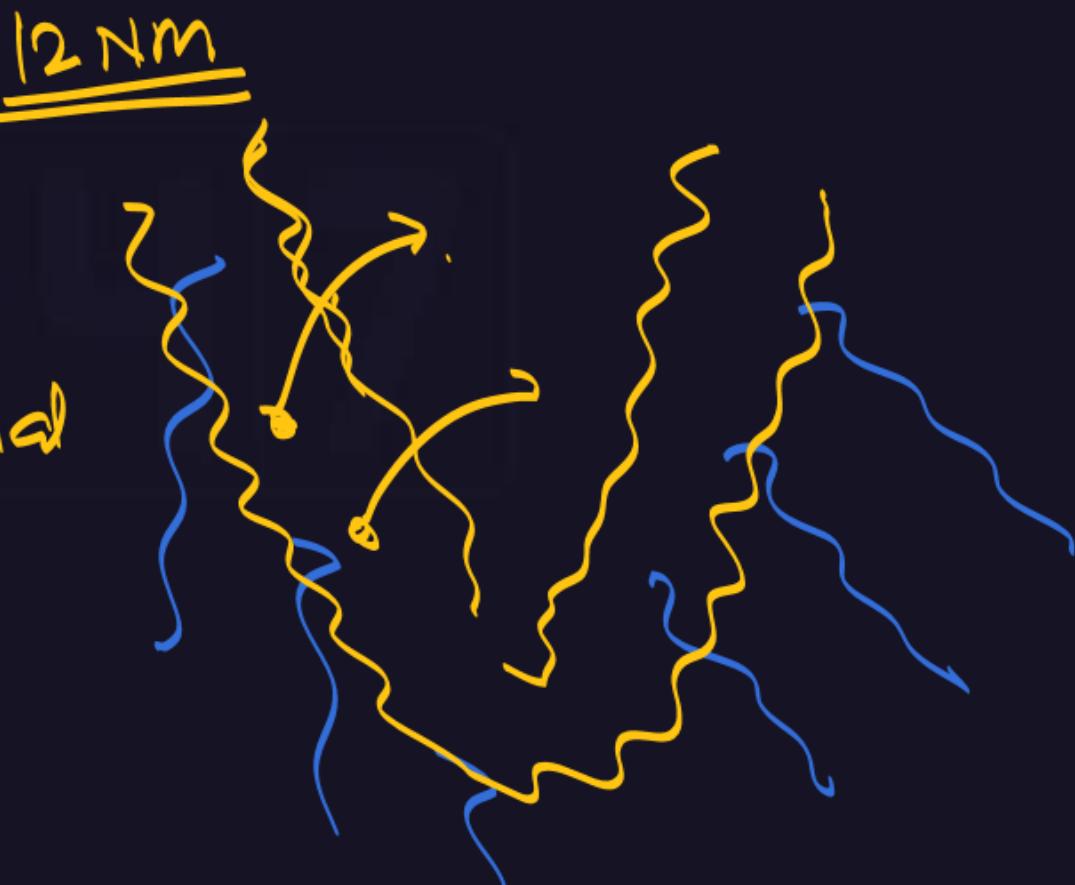
Final goods

- They are meant for final consumption.
- Added.
- Purchased for consumption.
- Outside the production boundary

Concept of "domestic territory":-

- Domestic territory includes political territory
- Including territory of water.
- Ships, civilets, floating platforms owned and operated by the normal resident in abroad.

→ Political territory /
→ Geographic



• Oil rigs, fishing vessels owned and operated by the
normal residents of the country in abroad.

Pok

• Embassies, consulates and military establishments

Indian
USA

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~~Snakes~~ ~~Nominal~~ ~~GDP at current price~~

Measures the value of current year's output at current year's price.

2011 Base year ₹10

$$\frac{1000 \text{ units}}{\text{ }} \times \underline{\text{₹10}} = ₹10,000/-$$

2025 Current year ₹20

$$\frac{1000 \text{ units}}{\text{ }} \times \underline{\text{₹20}} = ₹20,000/-$$

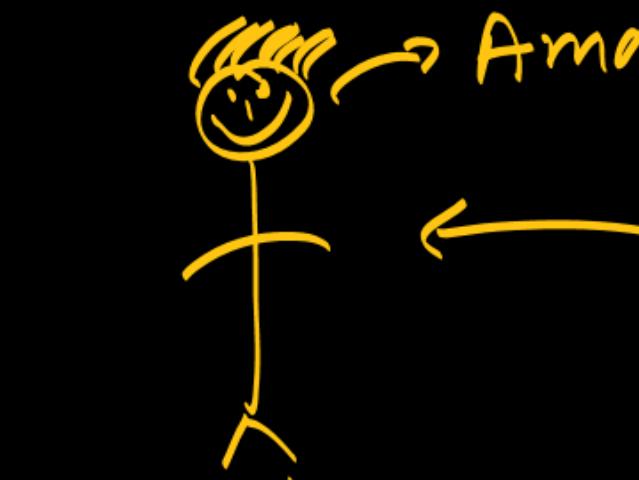
Misleading figures.

Inflation

GDP↑ Output↑

Theory of National Income

- GDP
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- Domestic territory
- Normal residents
- Circular flow of income



Amaan
Sir

COE + OS + MI

COE

Salary

Investment

✓
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Mined → Tuition
Income. fee

Rent
Interest
Royalty
Profit

- * ~~Receiving~~ ~~Unilateral~~
- Gift
 - donation
 - Remittance
 - old age pension
 - Unemployment benefits
 - etc



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Calculate Gross Domestic Product (GDPfc) and FITA:

1. compensation of employees	1000
2. Profits	200
3. dividends	50
4. GNPmp	1400
5. Rent	150
6. interest	100
7. gross domestic capital formation	300
8. net domestic fixed capital formation	200
9. change in stock	50
10. FIFA	60
11. NIT	120

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Item	Value
Compensation of Employees (COE)	250
Imports	20
Mixed Income (MI)	50
Gross Fixed Capital Formation	120
Private Final Consumption Expenditure (PFCE)	550
Depreciation (Dep)	10
Net Factor Income from Abroad (NFIA)	20
Indirect Taxes (IT)	100
Change in Stock	20
Subsidies	20
Rent	100
Interest	200
Profit	50
Exports	10
Government Final Consumption Expenditure (GFCE)	60

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Item	Value
Private Final Consumption Expenditure (PFCE)	2000
Net Capital Formation	400
Change in Stock	50
Compensation of Employees (COE)	1900
Rent	200
Interest	150
Operating Surplus (OS)	720
Net Indirect Taxes (NIT)	400
Employers' Contribution to Social Security Schemes	100
Net Exports	20
Net Factor Income from Abroad (NFIA)	-20
Government Final Consumption Expenditure (GFCE)	600
Depreciation	100

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Question : Calculate 'Net National Product' at Factor Cost from the Following:
Items ₹ (in Crores)

(i) Wages and Salaries	600
(ii) Rent	200
(iii) Interest	300
(iv) Social Security Contributions by Employers	100
(v) Net Factor Income Paid to Abroad	50
(vi) Profits	300

Source: CBSE 2014

Answer - 1,450 crore.

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Answer - _____ crore.

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Source: CBSE 2016
Answer - 1,380 crore.

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Question 2: Compute Domestic Income from the following (NDPfc).

Items	₹ (in Crores)
(i) Government final consumption expenditure	2,500
(ii) Subsidies	120
(iii) Gross domestic fixed capital formation	1,190
(iv) Net factor income to abroad	125
(V) Net decrease in inventories (change in stock)	100
(Vi) Net exports	(-) 420
(vii) Net indirect taxes	470
(viii) Current replacement cost (depreciation)	145
(IX) Private final consumption expenditure	2,200

Answer - 4,755 crore.

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Calculate Gross Domestic Product (GDPfc) and FITA:

1. compensation of employees	1000
2. Profits	200
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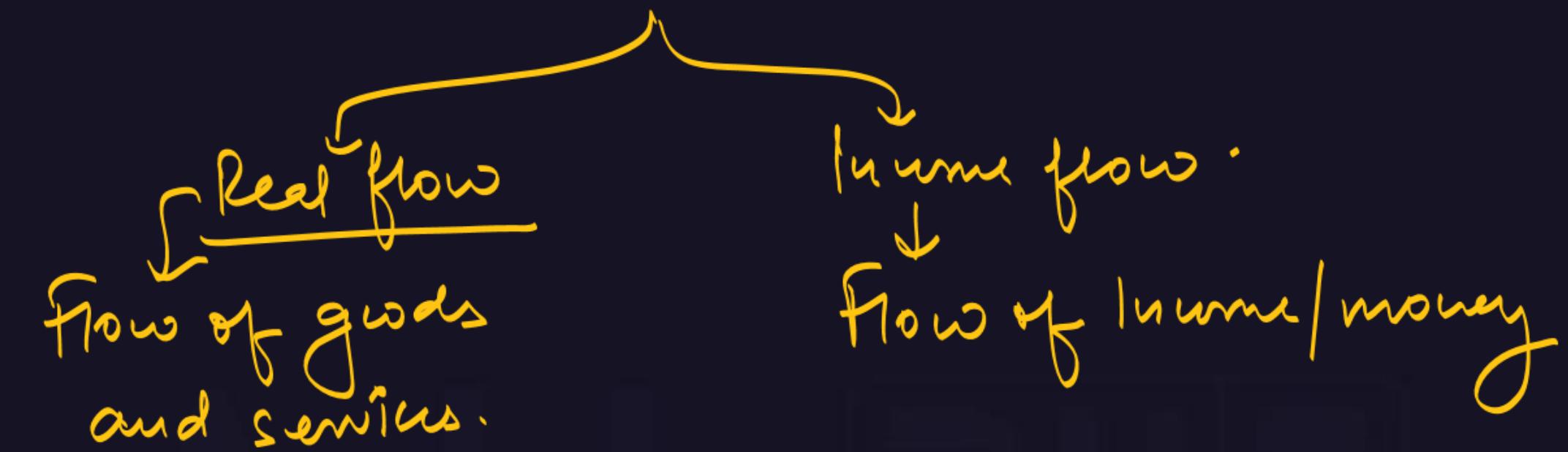


Circular flow of Income

→ Flow of money and goods and services across different sectors of an economy in circular form is known as CFI.

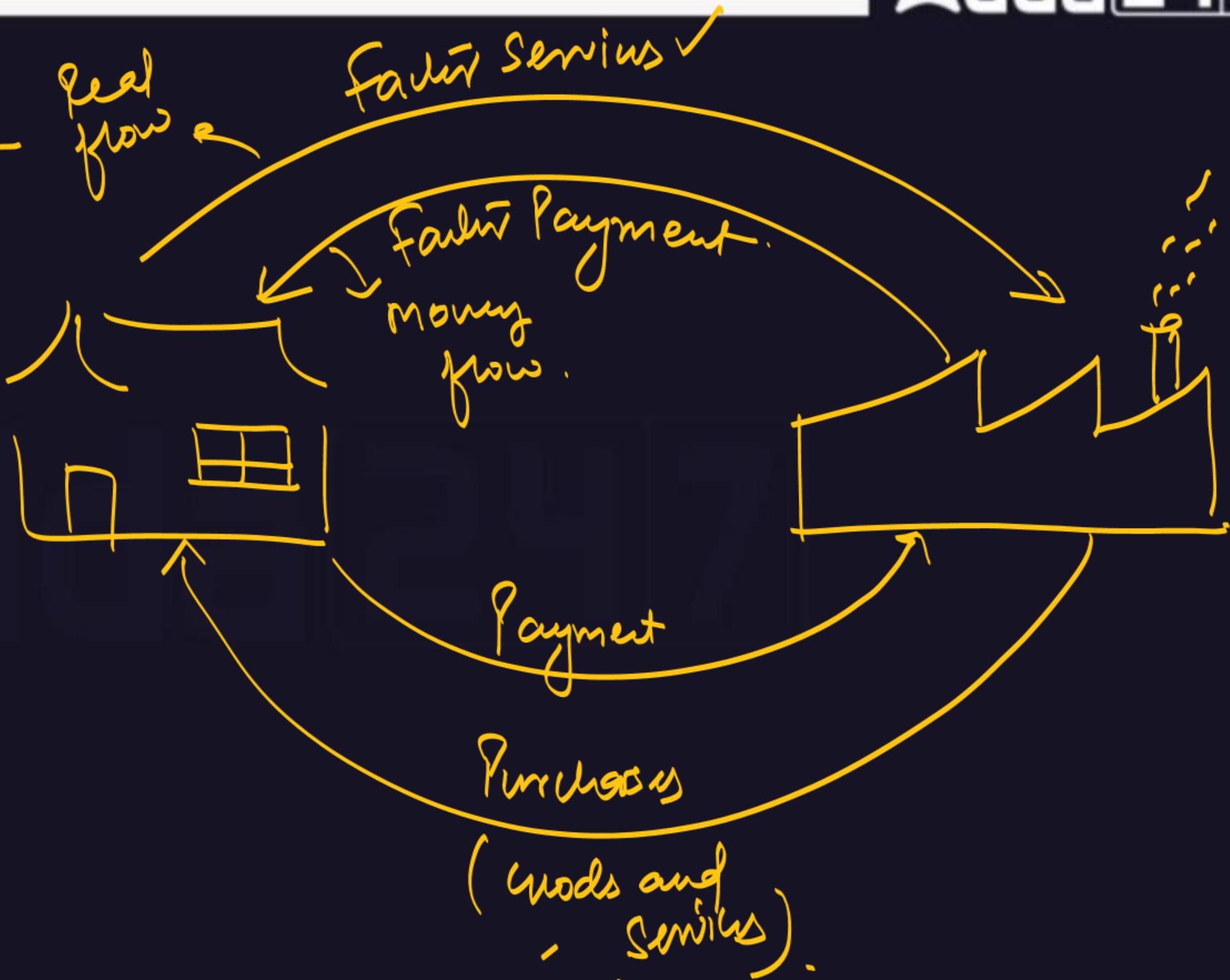
- Household
- Firms
- GOVT
- ROW

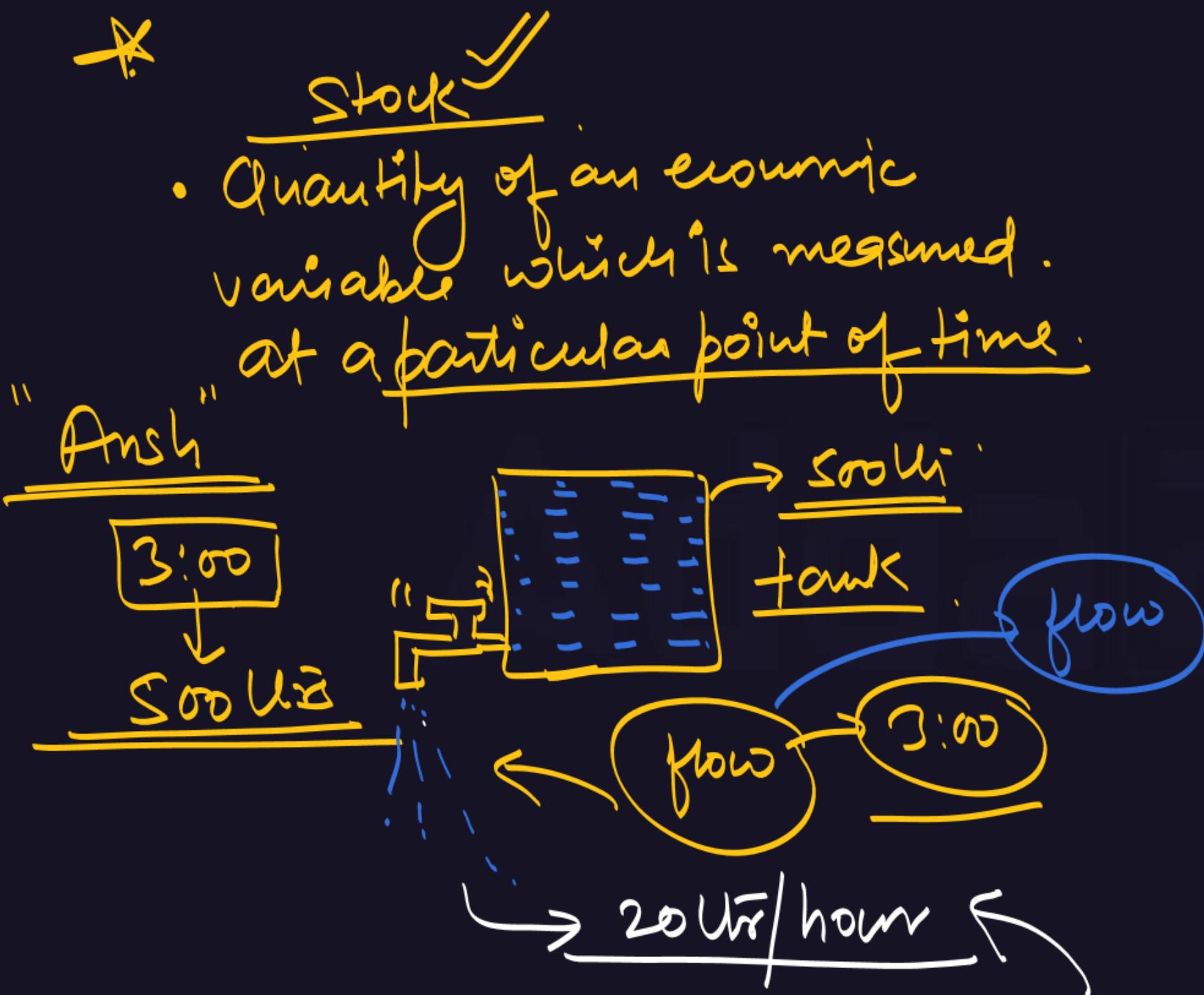




Two-sector model :-

- Household.
- Firms





Flow :

- Quantity of an economic variable which is measured over a period of time.

- flow has time dimensions.
eg per hour, per minute,
per annum etc

