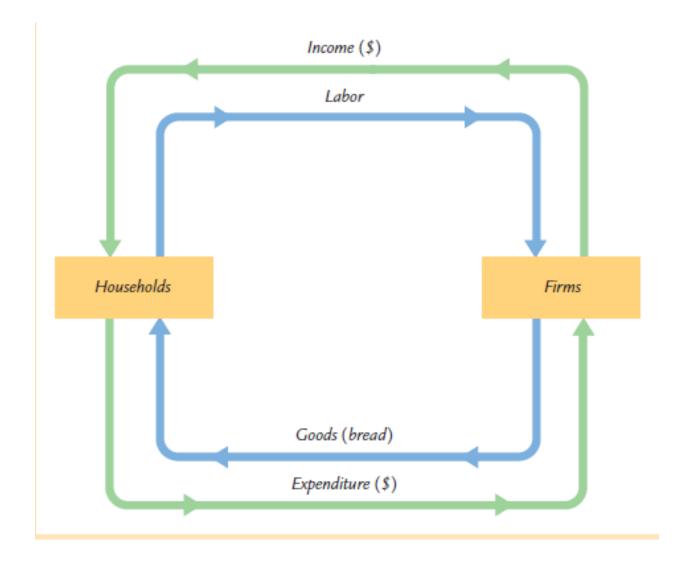
Measuring the Value of Economic Activity: GDP

- ➤ National Income Accounting
- ➤ Basic Concept: GDP is as the total income of everyone in the economy. Another way to view GDP is, as the total expenditure on the economy's output of goods and services.

➤ The Circular Flow:



- Rules of Computing GDP:
 - Stocks and Flows: A stock is a quantity measured at a given point in time, whereas a flow is a quantity measured per unit of time.
 - Examples:
- ♣A person's wealth is a stock; his income and expenditure are flows.
- ♣ The number of unemployed people is a stock; the number of people losing their jobs is a flow.
- **♣**The amount of capital in the economy is a stock; the amount of investment is a flow.
 - GDP is probably the most important flow variable in economics: it tells us how many rupees are flowing around the economy's circular flow per unit of time.
 - Gross domestic product (GDP) is the market value of all the final goods and services produced within an economy in a given period of time.

- Example: Adding Apples and Oranges
 - GDP = (Price of Apples × Quantity of Apples)
 - + (Price of Oranges × Quantity of Oranges)
 - Second Hand Goods
 - The Treatment of Inventories
- The Methods for Calculating GDP:
 - Income Method
 - Expenditure Method
 - Value Added Method
- Intermediate Goods and Value Added: Stage Production
 - Housing Services and Other Imputed value
- The Components of Expenditure: Y = C + I + G + NX
- This equation is an identity it is because of the way the variables are defined. It is called **the national income** accounts identity. Assuming Y is the GDP:
 - Consumption

- Investment
- Government's Expenditure
- Net Export
- Measures of Income: Payments for the Factors
 - Rent
 - Wages
 - Interest
 - Profits
- Other Measures of Income:
 - GNP = GDP + Factor Payments from Abroad Factor Payments to Abroad.
 - NNP = GNP Depreciation.
 - Market Prices = Factor Costs + Indirect Business
 Taxes (It may be of GDP, GNP or NNP)
 - Personal Income = National Income (Indirect Business Taxes - Corporate Profits - Social Security Contributions) + (Dividends + Government Transfers to Individuals)

Personal Disposable Income = Personal Income Personal Tax and Nontax Payments.

• Real GDP Vs. Nominal GDP:

- The value of goods and services measured at current prices is nominal GDP
- The value of goods and services measured using a constant set of prices is real GDP
- Real GDP₂₀₀₉ = (2009 Price of Apples × 2009 Quantity of Apples) + (2009 Price of Oranges × 2009 Quantity of Oranges)
- Real GDP₂₀₁₀ = (2009 Price of Apples × 2010 Quantity of Apples) + (2009 Price of Oranges × 2010 Quantity of Oranges)
- Real GDP₂₀₁₁ = (2009 Price of Apples × 2011 Quantity of Apples) + (2009 Price of Oranges × 2011 Quantity of Oranges)
- ➤ GDP Deflator: The implicit price deflator for GDP, is the ratio of nominal GDP to real GDP
 - GDP Deflator = (Nominal GDP / Real GDP)