## Finance (Basic)

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#### Financial markets

... system of institutions (instruments) that ensures the movement of money and capital from SSU to DSU. The movement is based on supply and demand. (Channels for allocation of savings to investment).

#### Functions of FM

- Borrowing and Lending
- Price determination
- ☐Information Aggregation and Coordination
- □ Risk Sharing
- Liquidity
- Efficiency

#### Interest rate

#### Type of interest:

Simple interest x Compound interest

.... when the interest is paid (*Interest period*)

Inflation Nominal x Real IR

### Practical examples

The client saved to the bank from 08/03/2021 to 05/05/2021 an amount of 15,000.00 to an annual interest rate of 8% p.a. . How much was the interest during this period?

The client saved for two years 10,000.00 to the bank. The interest rate was 6% per annum. The inflation was in this period 2% (p.a.). How much got the client from the bank in two years? What was his real gain?

Interest is calculated once a year.

.... What about the intrest period to be 6 month?

# Practical example – anticipative interest

The borrower issues a bill of exchange to a creditor at a face value of 10,000. The maturity of the bill is one year. Interest is 8% p.a. of the amount due. How much will the bill cost on the market in one month after the issue if the discount rate is 9.5% p.a.?

How long does a creditor have to wait to receive at least the amount owed at a given discount rate?

#### Major components of FM

Money market (T-Bills, ....)
 short-term up to one year
 Capital market (Stocks, Bonds...)
 more then one year

### Subtypes of FMs

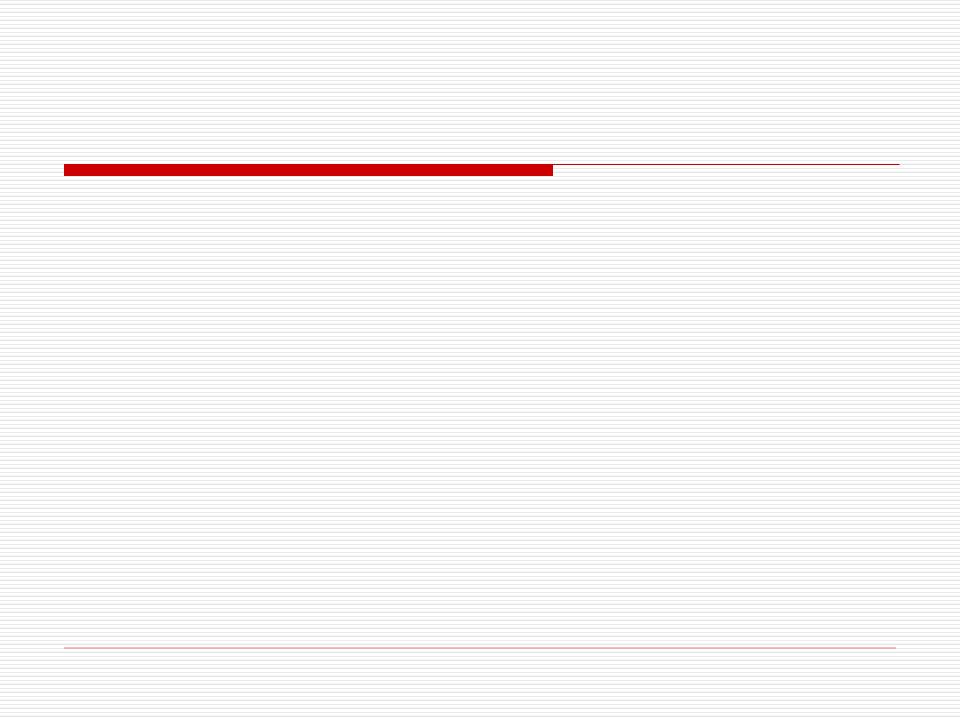
- □Capital Markets (Stocks, Bonds)
- ☐ Foreign Exchange Markets (FOREX)
- ■Insurance Markets
- □Futures Markets (standardized derivative
- ■Derivative Markets (Options, Swaps, Forwards)
- Commodity Markets
- Money Markets

#### Capital markets

- □Primary markets IPO (matching of quantity)
- □Secondary markets trading with issued securities (matching of price, quantity is already given)

## Secondary market

- □Spot market (Closing the transaction and the delivery of goods take place simultaneously or within a few days)
- □ Forward market (Transaction closed in present, settlement and delivery in the future)



## The major players in FMs

- ■Brokers
- Dealers
- ■Investment Banks
- □ Financial Intermediaries

#### Financial market structures

- □Over-The-Counter (The largest market structure, includes FOREX as well).
- □Centralized Exchanges (Stock Exchange, e.g. NYSE).
- □Electronic Communication networks (buyers and sellers can directly interact with each other, then costs are minimalized).

#### Index

... barometer for investors, a statistical measure for economy or financial markets. Stock Exchange Index – portfolio value of traded stock on the market (PSE, DAX, DJIA, S&P 500, NIKKEI 225).

#### **□**Types of indices:

- -Global (MSCI World)
- -National (FTSE 100, PSE,...)
- -Specialized (Morgan Standley Biotech Index)

## Efficient-market hypothesis

FMs are informationally efficient.

- ☐ Three version of the hypothesis:
  - Weak
  - Semi-strong
  - Strong

# Asymmetric Information in FMs

... difference or asymmetry in information available to buyers and sellers.

## Two types of AI

Adverse selection is a problem that arises for a buyer of goods, services, or assets when the buyer has difficulty assessing the quality of these items in advance of purchase. (Loan Markets)

Moral Hazard exists in a market if, after the signing of a purchase agreement between the buyer and seller (of asset) the seller changes his behavior in such a way that the probabilites (risk) used by the buyer to determine the terms of the purchase agreement are no longer accurate.

## Thank you for your attention